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PRACTICAL
PROBLEMS
IN
ARITHMETIC
PART I.

Educ T 118. 96. 550





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· PRACTICAL
PROBLEMS IN ARITHMETIC

FOR
PRIMARY GRADES

BY
ANNA J. MCGRATH. *46 Forest Ave. W.*



PART I.



DETROIT, MICH.
1896.

Edue 7 118,76.550
✓

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PREFACE.

THE design of the author in the preparation of this work has been to avoid the evils that result from using the blackboard alone for number work, and to assist the teacher, whose pleasant labor in the school-room is too often made a wearisome task through the amount of board-work she finds necessary to place before her pupils.

These practical problems can be used side by side with the regular text-book in Arithmetic, and can readily be used in connection with any series of arithmetics.

It has been the special aim to give facts in geography, history, science, etc., bearing on the courses of study in the primary grades.

The information, the collecting of which has occupied several years, has been obtained from different sources—current histories, city dictionaries, educational journals, daily papers, encyclopædias, charts in the government building at the World's Fair, etc.

There may be found seeming inaccuracies in the work which may be attributed to the fact that standard works, of reference do not always agree.

Only four lessons are given for a week's work ; the pro-

gressive teacher will be able to enlarge on given facts or supply others of more recent date for the remaining day. At least one day in each week should be devoted to current events.

The author's many years' experience in teaching number work along these lines has proven to her conclusively that a pupil will think when he has that before him which will awaken thought.

DETROIT, *January 6, 1896.*

PRACTICAL

PROBLEMS IN ARITHMETIC.



¢

- 5 CENTS = 1 NICKEL.
 10 CENTS = 1 DIME.
 10 DIMES = 1 DOLLAR.
 5 NICKELS = 1 QUARTER OF A DOLLAR.
 4 QUARTERS = 1 DOLLAR.
 2 HALF DOLLARS = 1 DOLLAR.
 10 NICKELS = 1 HALF DOLLAR.
 20 NICKELS = 1 DOLLAR.
 100 CENTS = 1 DOLLAR.



\$

- 60 SECONDS = 1 MINUTE.
 60 MINUTES = 1 HOUR.
 24 HOURS = 1 DAY.
 5 DAYS = 1 SCHOOL WEEK.
 7 DAYS = 1 WEEK.
 20 DAYS = 1 SCHOOL MONTH.
 30 DAYS = 1 MONTH.
 200 DAYS = 1 SCHOOL YEAR.
 4 WEEKS = 1 MONTH.
 10 MONTHS = 1 SCHOOL YEAR.
 12 MONTHS = 1 YEAR.

1. SUNDAY.
 2. *MONDAY.
 3. *TUESDAY.
 4. *WEDNESDAY.
 5. *THURSDAY.
 6. *FRIDAY.
 7. SATURDAY.

1. *JANUARY, 31 DAYS.
 2. *FEBRUARY, 28 DAYS.
 3. *MARCH, 31 DAYS.
 4. *APRIL, 30 DAYS.
 5. *MAY, 31 DAYS.
 6. *JUNE, 30 DAYS.
 7. JULY, 31 DAYS.
 8. AUGUST, 31 DAYS.
 9. *SEPTEMBER, 30 DAYS.
 10. *OCTOBER, 31 DAYS.
 11. *NOVEMBER, 30 DAYS.
 12. *DECEMBER, 31 DAYS.

CHRISTMAS, 25TH OF DECEMBER.

NEW YEARS, 1ST OF JANUARY.

WASHINGTON'S BIRTHDAY,
22ND OF FEBRUARY.

* School Days and School Months.

FIRST WEEK.

A SECOND.

MONDAY — LESSON 1.

Subtract—

1.	17	15	13	16	16	17	15	18	15	17
	-13	-5	-1	-7	-15	-5	-6	-7	-11	-10
2.	18	16	19	19	17	19	11	12	13	8
	-15	-7	-9	-4	-12	-12	-8	-4	-4	-4
3.	18	19	17	19	16	14	16	19	13	8
	-4	-7	-11	-8	-12	-12	-13	-4	-5	-5
4.	12	10	18	12	18	9	15	10	19	13
	-5	-5	-6	-2	-2	-2	-2	-2	-5	-2
5.	16	17	17	19	9	8	13	6	15	11
	-2	-2	-4	-3	-3	-6	-3	-3	-3	-3
6.	12	16	11	19	13	14	12	16	19	17
	-3	-3	-4	-3	-6	-6	-6	-6	-6	-6

TUESDAY — LESSON 2.

Subtract—

1.	14	7	18	19	18	11	15	15	14	9
	-5	-5	-9	-1	-5	-5	-14	-7	-7	-8
2.	9	14	17	19	16	13	12	12	19	17
	-5	-1	-3	-2	-1	-1	-1	-7	-9	-7

3.	$18 \div 2 = ?$	4.	$19 \div 1 = ?$	5.	$10 \div 2 = ?$
	$8 \div 4 = ?$		$15 \div 3 = ?$		$8 \div 2 = ?$
	$15 \div 5 = ?$		$12 \div 6 = ?$		$18 \div 9 = ?$
	$16 \div 8 = ?$		$4 \div 2 = ?$		$17 \div 1 = ?$
	$12 \div 3 = ?$		$16 \div 2 = ?$		$12 \div 2 = ?$
	$18 \div 6 = ?$		$13 \div 1 = ?$		$16 \div 4 = ?$
	$14 \div 7 = ?$		$18 \div 3 = ?$		$10 \div 5 = ?$
	$11 \div 1 = ?$		$14 \div 2 = ?$		$12 \div 4 = ?$
	$9 \div 3 = ?$		$6 \div 3 = ?$		$14 \div 1 = ?$
	$6 \div 2 = ?$		$15 \div 1 = ?$		$16 \div 1 = ?$

"Do the best you can, and you will soon do better."

MONDAY — LESSON I.

I. If a milkman has 3 cans that hold 6 gallons of milk each, how many gallons of milk has he?

II. In 4 gallons and 3 pints there are how many quarts?

III. Nine quarts and a pint are how many pints?

IV. Two weeks and 4 days are how many days?

V. A dime and 3 3-cent pieces are how much money?

TUESDAY — LESSON II.

I. There are 8 quarts in a peck. How many quarts are there in 2 pecks and 3 quarts?

II. A peck of beans cost 16 cents. What will $\frac{1}{2}$ of a peck cost?

III. There are 3 feet in 1 yard of ribbon. How many yards are there in 19 feet?

IV. Three nickels and 4 cents are how much money?

V. Nineteen weeks are how many months?

VI. One year and 7 months are how many months?

THURSDAY — LESSON 3.

- | | | |
|----------------------------|----------------------------|----------------------------|
| 1. $\frac{1}{6}$ of 18 = ? | 2. $\frac{1}{5}$ of 15 = ? | 3. $\frac{1}{2}$ of 18 = ? |
| $\frac{1}{6}$ of 6 = ? | $\frac{1}{5}$ of 5 = ? | $\frac{1}{2}$ of 2 = ? |
| $\frac{1}{6}$ of 12 = ? | $\frac{1}{5}$ of 10 = ? | $\frac{1}{2}$ of 16 = ? |
| $\frac{1}{10}$ of 10 = ? | $\frac{1}{3}$ of 3 = ? | $\frac{1}{2}$ of 10 = ? |
| $\frac{1}{4}$ of 16 = ? | $\frac{1}{3}$ of 18 = ? | $\frac{1}{2}$ of 8 = ? |
| $\frac{1}{4}$ of 4 = ? | $\frac{1}{3}$ of 9 = ? | $\frac{1}{2}$ of 12 = ? |
| $\frac{1}{4}$ of 12 = ? | $\frac{1}{3}$ of 12 = ? | $\frac{1}{2}$ of 6 = ? |
| $\frac{1}{4}$ of 8 = ? | $\frac{1}{3}$ of 6 = ? | $\frac{1}{2}$ of 14 = ? |
-
- | | | | |
|---------------------|------------------|------------------|------------------|
| 4. $1 \times 6 = ?$ | $1 \times 5 = ?$ | $1 \times 4 = ?$ | $4 \times 4 = ?$ |
| $1 \times 3 = ?$ | $4 \times 3 = ?$ | $2 \times 1 = ?$ | $2 \times 5 = ?$ |
| $2 \times 4 = ?$ | $5 \times 4 = ?$ | $2 \times 3 = ?$ | $5 \times 3 = ?$ |
| $3 \times 6 = ?$ | $3 \times 5 = ?$ | $3 \times 4 = ?$ | $4 \times 5 = ?$ |
| $3 \times 3 = ?$ | $6 \times 3 = ?$ | $2 \times 9 = ?$ | $9 \times 2 = ?$ |

FRIDAY — LESSON 4.

- | | | | |
|---------------------|-------------------|------------------|-------------------|
| 1. $1 \times 2 = ?$ | $1 \times 7 = ?$ | $4 \times 5 = ?$ | $3 \times 5 = ?$ |
| $2 \times 2 = ?$ | $2 \times 7 = ?$ | $4 \times 1 = ?$ | $5 \times 1 = ?$ |
| $3 \times 2 = ?$ | $1 \times 8 = ?$ | $4 \times 3 = ?$ | $5 \times 3 = ?$ |
| $4 \times 2 = ?$ | $2 \times 8 = ?$ | $4 \times 4 = ?$ | $5 \times 2 = ?$ |
| $5 \times 2 = ?$ | $1 \times 9 = ?$ | $4 \times 2 = ?$ | $5 \times 4 = ?$ |
| $6 \times 2 = ?$ | $2 \times 9 = ?$ | $3 \times 6 = ?$ | $6 \times 2 = ?$ |
| $7 \times 2 = ?$ | $1 \times 10 = ?$ | $3 \times 1 = ?$ | $3 \times 2 = ?$ |
| $8 \times 2 = ?$ | $2 \times 10 = ?$ | $3 \times 3 = ?$ | $10 \times 2 = ?$ |
| $9 \times 2 = ?$ | $6 \times 1 = ?$ | $3 \times 4 = ?$ | $2 \times 6 = ?$ |
-
2. (1.) $10 = 2 \times 5$, 5×2 , 10×1 and 1×10 .
 (2.) $12 = 2 \times 6$, 6×2 , 3×4 , 4×3 , 12×1 and 1×12 .
 (3.) $14 = 2 \times 7$, 7×2 , 14×1 and 1×14 .
 (4.) $16 = 4 \times 4$, 2×8 , 8×2 , 16×1 and 1×16 .
 (5.) $18 = 2 \times 9$, 9×2 , 3×6 , 6×3 , 18×1 and 1×18 .
 (6.) $20 = 4 \times 5$, 5×4 , 2×10 , 10×2 , 20×1 and 1×20 .

THURSDAY — LESSON III.

I. I have folded my square of paper into 16 small squares. How many squares are there on each side?

II. How large a square is my paper?

III. My flower-bed is 16 feet around the edge. How many square feet are there in it?

IV. Our garden has 16 square yards in it. How many yards square is it?

V. How many inches longer than wide is your slate?

FRIDAY — LESSON IV.

I. Roy wants 19 cents with which to buy a pencil and slate for school. He earned 5 cents Monday night selling papers. How much more must he earn?

II. If you have 19 blocks to go on Saturday, and the street car can carry you only 14 of them, how far will you have to walk?

III. There are 19 girls in our class, but only 13 are present. How many are absent?

IV. Out of 19 eggs mamma used one dozen for cooking. How many are left?

V. I went to the store with 19 cents and bought a 15-cent broom and some candy for 4 cents. Did I bring any money home?

SECOND WEEK.**A SECOND.****MONDAY — LESSON 5.***Add—*

1.	98	78	68	48	28	58	38	18	88
	+1	+1	+1	+1	+1	+1	+1	+1	+1
2.	97	47	57	87	67	37	17	77	96
	+2	+2	+2	+2	+2	+2	+2	+2	+3
3.	46	86	76	56	36	26	16	66	25
	+3	+3	+3	+3	+3	+3	+3	+3	+4
4.	55	65	35	95	85	75	15	45	27
	+4	+4	+4	+4	+4	+4	+4	+4	+1
5.	17	57	67	87	97	37	47	77	86
	+1	+1	+1	+1	+1	+1	+1	+1	+11
6.	45	25	65	85	95	35	55	75	15
	+31	+51	+11	+11	+1	+31	+21	+21	+61
7.	94	24	84	74	34	54	64	44	14
	+3	+53	+13	+23	+63	+23	+33	+33	+53

TUESDAY — LESSON 6.*Add—*

1.	92	22	52	82	72	42	62	32	12
	+6	+36	+46	+16	+26	+46	+26	+46	+66
2.	94	24	84	74	64	54	34	44	14
	+2	+52	+12	+22	+32	+42	+62	+32	+72
3.	95	25	65	45	55	75	85	35	15
	+3	+43	+23	+43	+33	+23	+43	+53	+63
4.	3	6	5	7	5	13	3	2	3
	+7	+9	+12	+9	+10	+4	+4	+17	+14
5.	7	13	9	3	3	6	3	3	3
	+7	+5	+9	+7	+6	+2	+10	+12	+8
6.	3	13	3	6	6	6	16	6	6
	+9	+3	+16	+7	+8	+6	+10	+4	+13

MONDAY — LESSON V.

$2 \times 10 = ?$

$4 \times 5 = ?$

$10 \times 2 = ?$

$5 \times 4 = ?$

- I.* How many toes has a bear?
- II.* Five horses have how many shoes?
- III.* Four school weeks are how many days?
- IV.* At 5 cents a bunch, what will 4 bunches of celery cost?
- V.* There are 4 quarts in a gallon. How many quarts are there in 5 gallons?
- VI.* Two pecks and a half of apples are how many quarts?
- VII.* In a 5-gallon can of molasses how many quarts are there?
- VIII.* At 5 cents a quart, what will a gallon of oil cost?
-

TUESDAY — LESSON VI.

- I.* Ten pairs of shoes are how many shoes?
- II.* Two boys have how many fingers?
- III.* Ten 2-cent stamps will cost how much money?
- IV.* Two crabs have how many legs?
- V.* Two dimes are how much money?
- VI.* A boy picked 10 quarts of blackberries one day, using a pint cup. How many times did he fill the pint cup?
- VII.* Ten boys will wear how many mittens?
- VIII.* How many toes has a mud-turtle?

THURSDAY — LESSON 7.

Add—

1.	5	15	4	5	5	6	2	14	2	2	2
	+2	+5	+15	+3	+7	+12	+10	+6	+16	+7	+13
2.	2	5	2	2	2	4	4	4	12	4	
	+8	+14	+11	+14	+15	+13	+6	+8	+8	+9	
3.	4	7	12	11	8	12	8	12	8	8	4
	+14	+12	+5	+9	+11	+4	+8	+4	+9	+10	+4
4.	9	7	15	7	10	14	7	8	9	5	
	+10	+9	+3	+10	+10	+1	+11	+8	+9	+5	

Subtract—

5.	18	15	20	17	18	16	19	18	17	16	
	-7	-11	-10	-7	-3	-7	-9	-8	-9	-8	
6.	17	18	17	10	12	15	20	8	13	18	
	-2	-17	-14	-4	-4	-14	-8	-4	-4	-4	
7.	19	17	20	16	19	16	14	20	19	17	
	-7	-12	-11	-15	-8	-4	-10	-5	-15	-8	

FRIDAY — LESSON 8.

$20 \div 2 = ?$

$20 \div 10 = ?$

Illustrate tens and units with squares and splints.

Subtract—

1.	13	18	12	10	18	12	20	18	9	15	
	-5	-13	-7	-5	-6	-2	-14	-2	-2	-2	
2.	10	19	13	16	20	15	10	19	18	15	
	-2	-5	-2	-2	-7	-7	-8	-4	-9	10	
3.	9	8	13	16	15	11	20	14	12	11	
	-3	-6	-3	-3	-3	-3	-3	-3	-3	-4	
4.	19	13	14	12	16	20	19	17	20	10	
	-3	-6	-6	-6	-6	-4	-6	-6	-1	-7	
5.	15	17	16	16	13	10	17	20	19	17	
	-6	-5	-15	-10	-9	-6	-10	-18	-2	-3	

THURSDAY — LESSON VII.

$$20 \div 5 = ?$$

$$20 \div 4 = ?$$

I. In 5 gallons of buttermilk how many quarts are there?

II. Four rides on a street car will cost how much, if one ride costs 5 cents?

III. What 4 equal pieces of money make 20 cents?

IV. How many nickels are there in 20 cents?

V. Twenty horseshoes will shoe how many horses?

VI. When milk is 5 cents a quart, how many quarts can be bought with 20 cents?

VII. Twenty cents will pay for how many 5-cent lead pencils?

VIII. Twenty quarts of vinegar are how many gallons?

FRIDAY—LESSON VIII.

I. In the month of September there were 20 school days; how many weeks were there?

II. Clothes-pins are 4 cents a dozen. How many dozen can you buy with 20 cents?

III. When chestnuts are 5 cents a pint, what will 4 pints cost?

IV. How many dimes are there in 2 dollars?

V. The buttons on Roy's coat cost 20 cents a dozen. What did half a dozen cost?

VI. If 1 yard of ribbon cost 2 cents, what will 10 yards cost?

VII. Write 20 in Roman letters and in words.

THIRD WEEK.

A SECOND.

MONDAY — LESSON 9.

- | | | | |
|-----------------|---------------|---------------|---------------|
| 1. $20 + 5 = ?$ | $30 + 6 = ?$ | $40 + 9 = ?$ | $50 + 10 = ?$ |
| $20 + 1 = ?$ | $30 + 8 = ?$ | $40 + 7 = ?$ | $30 + 20 = ?$ |
| $20 + 6 = ?$ | $30 + 1 = ?$ | $40 + 5 = ?$ | $40 + 30 = ?$ |
| $20 + 8 = ?$ | $30 + 4 = ?$ | $40 + 8 = ?$ | $20 + 50 = ?$ |
| $20 + 2 = ?$ | $30 + 7 = ?$ | $40 + 6 = ?$ | $40 + 40 = ?$ |
| $20 + 3 = ?$ | $30 + 2 = ?$ | $40 + 4 = ?$ | $80 + 10 = ?$ |
| $20 + 7 = ?$ | $30 + 5 = ?$ | $40 + 1 = ?$ | $70 + 20 = ?$ |
| $20 + 4 = ?$ | $30 + 9 = ?$ | $40 + 3 = ?$ | $50 + 30 = ?$ |
| $20 + 10 = ?$ | $30 + 3 = ?$ | $40 + 10 = ?$ | $60 + 30 = ?$ |
| $20 + 9 = ?$ | $30 + 10 = ?$ | $40 + 2 = ?$ | $20 + 40 = ?$ |

TUESDAY — LESSON 10.

1. 10 dimes = cents ?
 7 dimes + 5 cents = cents ?
 5 dimes = cents ?
 3 dimes = cents ?
 2 dimes + 5 cents = cents ?
 1 dime = cents ?
 1 dime + 5 cents = cents ?
 8 dimes = cents ?
 9 dimes = cents ?
 4 dimes = cents ?
2. $75 - 10 = ?$ $64 - 4 = ?$ $62 + 30 = ?$ $50 \div 10 = ?$
 $50 - 20 = ?$ $75 - 5 = ?$ $86 + 20 = ?$ $100 \div 10 = ?$
 $40 - 20 = ?$ $89 - 9 = ?$ $57 + 20 = ?$ $40 \div 10 = ?$
 $60 - 30 = ?$ $76 - 6 = ?$ $50 + 20 = ?$ $30 \div 10 = ?$
 $90 - 60 = ?$ $38 - 8 = ?$ $77 - 40 = ?$ $80 \div 10 = ?$
 $50 - 10 = ?$ $47 - 7 = ?$ $44 - 20 = ?$ $90 \div 10 = ?$

MONDAY — LESSON IX.

- I.* Twenty cents will buy how many 2-cent stamps?
- II.* How many dimes are there in 20 cents?
- III.* If 2 Christmas cards cost 20 cents, what will 1 card cost?
- IV.* How many 10-cent dolls can you buy with 20 cents?
- V.* How many quarts of berries, at 10 cents a quart, can be bought with 20 cents?
- VI.* Mary bought 20 oranges and divided them equally on 2 plates. How many were there on each plate?
- VII.* Twenty boys wear how many mittens?
- VIII.* Twenty quarts of peanuts are how many pints?
- IX.* At 10 cents each, how many Brownie pins can you buy with 20 cents?
-

TUESDAY — LESSON X.

$$\frac{1}{4} \text{ of } 20 = ?$$

$$\frac{1}{5} \text{ of } 20 = ?$$

- I.* Five days are what part of a school month?
- II.* A nickel is what part of 20 cents?
- III.* There are 20 girls in Miss Brown's class. If $\frac{1}{4}$ of them are absent, how many girls are absent?
- IV.* A little boy lost 5 cents and said that it was $\frac{1}{4}$ of all his money. How much money had he?
- V.* Willie had 20 cents and he spent all but $\frac{1}{4}$ of it. How much money had he left?
- VI.* A farmer had 20 acres of land. He planted $\frac{1}{4}$ of it with potatoes and the rest with corn. How many acres of potatoes did he plant?
- VII.* How many acres did he plant with corn?

THURSDAY — LESSON 11.

1. $80 - 50 = ?$ $32 - 2 = ?$ $66 - 30 = ?$ $60 \div 10 = ?$

$70 - 20 = ?$ $51 - 1 = ?$ $48 - 30 = ?$ $70 \div 10 = ?$

$30 - 10 = ?$ $63 - 3 = ?$ $60 - 20 = ?$ $60 - 10 = ?$

2. At 2 cents a yard, how many yards of ribbon can you buy with 20 cents?

3. Jennie had 2 dimes to spend for Christmas. How many 10-cent books could she buy?

4. Write 8, 9, 10, 13 and 17 in Roman letters.

Add—

5.	30	60	40	50	70	80	90	30	20	50
	+4	+5	+7	+3	+8	+6	+9	+2	+1	+8

6.	80	70	70	30	50	60	100	80	64
	+9	+6	+20	+40	+20	+20	+40	+10	+30

7.	35	57	63	77	85	$2 \times 10 = ?$	$7 \times 10 = ?$	$8 \times 10 = ?$
	+20	+40	+20	+10	+10	$4 \times 10 = ?$	$3 \times 10 = ?$	$9 \times 10 = ?$

FRIDAY — LESSON 12.

Add—

1.	39	69	79	59	89	99	49	19	99
	+9	+9	+9	+9	+9	+9	+9	+9	+2

2.	59	29	49	79	39	69	89	18	68
	+2	+2	+2	+2	+2	+2	+2	+9	+9

3.	48	38	58	28	88	98	29	49	69
	+9	+9	+9	+9	+9	+9	+3	+3	+3

4.	59	89	99	79	39	89	29	69	79
	+3	+3	+3	+3	+3	+4	+4	+4	+4

5.	99	59	49	39	69	39	49	29	59
	+4	+4	+4	+4	+5	+5	+5	+5	+5

6.	79	99	89	59	79	19	29	49	89
	+5	+5	+5	+6	+6	+6	+6	+6	+6

7.	79	99	19	49	69	59	89	99	39
	+6	+6	+7	+7	+7	+7	+7	+7	+7

THURSDAY — LESSON XI.

$\frac{1}{2}$ of 20 = ?

$\frac{1}{10}$ of 20 = ?

I. How many days are there in $\frac{1}{4}$ of a school month?

II. When bananas are 20 cents a dozen, what part of a dozen will 5 cents buy?

III. I went to the store with 20 cents, and spent $\frac{1}{2}$ of it for celery. What did the celery cost?

IV. Mamma had just 20 cents, and she gave me 2 cents for a lead pencil. What part of 20 cents is 2 cents?

V. Mary was absent from school just $\frac{1}{10}$ of the school month. How many days was Mary absent?

VI. A little girl having 20 cents spent a dime for candy. What part of her money did she spend?

VII. Kate had 20 cents, and she spent $\frac{1}{10}$ of it for candy. What did the candy cost?

FRIDAY — LESSON XII.

$7 \times 3 = ?$

$3 \times 7 = ?$

I. James spent a dime for a slate, which was half of all his money. How much money had James?

II. It rained $\frac{1}{4}$ of the school month. How many days did it rain?

III. For 10 days in October the wind was in the west. During what part of the month was the wind in the west?

IV. On a paper of pins there are 20 pins in a row. How many are there in $\frac{1}{2}$ of a row?

V. A man had 20 dollars and put $\frac{1}{2}$ of it in each of 2 pockets. How much had he in each pocket?

VI. Ten boys have how many hands?

VII. A man bought a book for 75 cents and sold it for 60 cents. How many cents did he lose?

FOURTH WEEK.

A SECOND.

MONDAY — LESSON 13.

$21 = 3 \times ?$

$21 = 7 \times ?$

Add—

1.	77	57	87	97	47	27	17	37	67	97
	+13	+23	+13	+3	+33	+43	+63	+63	+33	+4
2.	27	37	57	67	77	87	47	17	67	87
	+64	+44	+24	+13	+13	+23	+33	+53	+15	+35
3.	97	77	37	57	17	27	47	87	97	57
	+5	+25	+45	+35	+83	+66	+26	+16	+6	+36
4.	77	17	77	97	37	57	87	67	47	27
	+46	+76	+18	+8	+48	+18	+18	+38	+18	+68
5.	57	87	97	67	27	77	17	96	86	76
	+39	+19	+9	+29	+59	+29	+69	+4	+14	+24
6.	26	16	36	66	96	36	86	46	26	66
	+54	+84	+44	+34	+5	+45	+15	+35	+55	+45

TUESDAY — LESSON 14.

Add—

1.	56	16	25	85	95	35	45	55	75	65
	+55	+65	+75	+15	+5	+65	+45	+25	+15	+35
2.	96	26	86	36	56	46	66	76	16	
	+6	+56	+16	+46	+36	+46	+36	+26	+66	
3.	89	69	49	79	59	39	29	99	19	78
	+10	+10	+10	+20	+40	+60	+70	+10	+60	+22
4.	38	58	28	88	18	28	78	48	98	38
	+42	+32	+62	+2	+72	+53	+23	+53	+3	+53
5.	18	88	28	68	98	58	78	48	38	18
	+73	+4	+54	+34	+4	+34	+24	+34	+54	+64
6.	68	88	58	38	28	18	68	48	38	98
	+25	+5	+35	+45	+65	+75	+16	+26	+66	+6
7.	78	18	58	48	68	88	38	98	28	78
	+26	+76	+17	+37	+37	+7	+27	+7	+67	+37

MONDAY — LESSON XIII.

I. If your slate is 1 foot long and 11 inches wide, how many inches is it around your slate?

II. There are 8 quarts in 1 peck. How many quarts are there in 2 pecks and 3 quarts?

III. There are 7 days in 1 week. How many days are there in 3 weeks and 4 days?

IV. There are 3 feet in 1 yard. How many feet are there in 7 yards and 2 feet?

V. Twenty pennies may be changed into what 4 equal coins?

VI. There are 4 pecks in a bushel. How many pecks are there in 3 bushels?

VII. If 1 basket holds 2 pecks, how many baskets will hold 2 bushels?

TUESDAY — LESSON XIV.

I. How many pecks are there in 1 bushel and a half of potatoes?

II. How many bushels are there in 20 pecks?

III. What will 2 pecks of potatoes cost at 80 cents a bushel?

IV. There are 8 quarts in a peck. When peanuts are 4 cents a quart, what will $\frac{1}{2}$ peck cost?

V. At \$1 a bushel what will 1 peck of apples cost?

VI. A boy picked up 5 bushels of potatoes for a farmer. The farmer paid the boy by giving him 3 pecks of potatoes. How many pecks had the farmer left?

VII. If beans are worth 40 cents a peck, what is $\frac{1}{2}$ bushel worth?

VIII. How many times must a grocer fill a peck measure in selling 2 bushels of potatoes?

THURSDAY—LESSON 15.

$21 + 3 = ?$

$21 + 7 = ?$

Add—

1.	68	98	28	78	88	58	18	58	68	78
	+38	+8	+68	+28	+8	+38	+68	+29	+19	+29

2.	38	28	18	91	71	61	31	81	21	51
	+59	+69	+89	+9	+19	+29	+59	+19	+79	+49

Subtract—

3.	31	41	91	51	61	81	21	71	11	12
	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9

4.	42	62	89	72	22	52	31	51	11	61
	-9	-9	-9	-9	-9	-9	-8	-8	-8	-8

5.	71	91	41	81	21	71	21	81	41	61
	-8	-8	-8	-8	-8	-17	-17	-27	-37	-47

6.	51	31	11	72	92	42	52	62	82	32
	-37	-27	-7	-58	-18	-28	-38	-48	-38	-18

FRIDAY—LESSON 16.

Subtract—

1.	12	22	11	91	41	51	71	81	61	21
	-8	-18	-6	-36	-26	-36	-46	-56	-36	-16

2.	11	81	51	61	91	71	41	31	21	72
	-4	-64	-34	-34	-74	-44	-24	-14	-14	-39

3.	31	81	91	41	21	11	61	71	91	51
	-15	-55	-73	-35	-15	-5	-45	-35	-65	-25

4.	51	81	41	21	61	71	31	81	51	91
	-23	-53	-23	-13	-40	-40	-20	-61	-21	-71

5.	41	61	71	21	11	12	32	41	82	92
	-21	-12	-52	-12	-2	-7	-17	-27	-57	-37

6.	72	62	52	22	92	32	52	82	42	43
	-47	-37	-37	-17	-86	-26	-36	-46	-15	-29

7.	62	72	22	12	22	42	32	92	62	52
	-45	-35	-15	-5	-12	-12	-22	-12	-34	-24

THURSDAY — LESSON XV.

$\frac{1}{3}$ of 21 = ?

$\frac{1}{7}$ of 21 = ?

I. If you pay 5 cents for a quart of berries, what will $\frac{1}{2}$ peck cost?

II. When flour is \$7 a barrel, what part of \$21 will it take to buy a barrel?

III. If apples are \$3 a barrel, what part of \$21 will 1 barrel cost?

IV. If I spend \$7 for a dress, what part of \$21 do I spend?

V. A 3-cent piece of money is what part of 21 cents?

VI. One week is what part of 21 days?

VII. I have \$21 and spend $\frac{1}{3}$ of it for a ton of coal. How much money does it cost?

FRIDAY — LESSON XVI.

I. Mamma gave me 21 nuts to divide equally among my 3 playmates. What part of 21 nuts does each one receive?

II. If I have 21 cents and spend 3 cents every day, what part of 21 cents do I spend daily?

III. If 7 cents is $\frac{1}{3}$ of all my money, how much money have I?

IV. Mary had 21 cents in 3-cent pieces. How many 3-cent pieces had she?

V. Alice spent 21 days with her grandmother. How many weeks was she away from home?

VI. Twenty-one feet are how many yards?

VII. When wood is \$3 a cord, how many cords can I buy with \$21?

VIII. When coal is \$7 a ton, how many tons can I buy with \$21.

FIFTH WEEK.

A SECOND.

MONDAY — LESSON 17.

Subtract—

1.	12	82	92	22	32	72	63	43	83	53
	-4	-44	-34	-13	-13	-53	-29	-29	-69	-49
2.	23	93	73	83	43	13	93	23	33	72
	-19	-49	-18	-48	-28	-8	-68	-18	-18	-57
3.	53	63	13	33	63	93	83	43	53	73
	-38	-58	-7	-17	-27	-47	-57	-37	-37	-47
4.	23	63	83	93	43	53	73	33	13	93
	-5	-25	-15	-75	-16	-36	-35	-26	-6	-84
5.	33	43	63	83	53	13	44	94	84	64
	-24	-14	-44	-54	-34	-4	-19	-79	-59	-49
6.	54	34	74	14	25	55	85	65	95	75
	-39	-29	-69	-9	-17	-27	-37	-47	-57	-37

TUESDAY — LESSON 18.

Subtract—

1.	97	27	57	47	87	67	37	17	77
	-79	-19	-39	-29	-59	-39	-19	-9	-49
2.	17	77	47	87	37	67	27	97	57
	-10	-60	-20	-50	-17	-57	-18	-88	-38
3.	98	48	28	18	58	68	78	88	38
	-59	-39	-19	-9	-39	-49	-29	-69	-19
4.	10	90	20	60	40	70	80	50	30
	-9	-49	-19	-39	-29	-49	-39	-49	-19
5.	90	30	50	70	60	40	20	10	80
	-42	-12	-32	-52	-32	-22	-12	-2	-62
6.	30	70	90	50	60	40	80	10	20
	-18	-28	-38	-28	-38	-28	-48	-8	-18
7.	50	80	60	30	40	70	90	20	10
	-17	-37	-47	-17	-27	-54	-34	-14	-4

MONDAY — LESSON XVII.

I. A farmer received \$21 for 3 loads of hay. What did he receive for 1 load?

II. If 7 hats cost \$21 what will 1 hat cost?

III. A blackboard that is 21 feet long is how many yards long?

IV. If 21 apples are divided equally among 7 boys, how many will each boy receive?

V. At 7 cents a pound, how many pounds of grapes can you buy with 21 cents?

VI. If buttermilk is 3 cents a quart, how many quarts can you buy with 21 cents?

VII. In 3 weeks how many days are there?

TUESDAY — LESSON XVIII.

I. Three great dippers would have how many stars?

II. How many sticks will make 7 triangles?

III. Seven 3-cent pieces are how much money?

IV. Seven clover stems will have how many leaflets?

V. If I spend 3 cents each day, how much money will I spend in 1 week?

VI. In a bolt of tape 7 yards long how many feet are there?

VII. If Willie's hens lay 3 eggs every day, how many eggs will they lay in a week?

VIII. If it takes 3 men 7 days to build a fence around a field, how long would it take 1 man to build it?

THURSDAY — LESSON 19.

Subtract—

1.	20	40	90	60	50	70	80	10	30
	-3	-23	-73	-23	-43	-23	-11	-1	-21
2.	60	80	70	50	90	40	30	20	10
	-16	-26	-36	-16	-56	-25	-15	-5	-5
3.	94	64	24	14	74	54	44	34	84
	-27	-37	-17	-7	-57	-37	-27	-17	-67
4.	24	54	84	94	34	44	64	74	14
	-16	-26	-76	-66	-26	-16	-36	-46	-6
5.	94	14	64	34	74	84	24	54	44
	-4	-4	-4	-25	-55	-35	-15	-35	-25
6.	95	25	55	65	85	75	45	35	15
	-89	-19	-39	-49	-59	-49	-25	-15	-5
7.	65	85	35	45	75	95	25	15	55
	-50	-40	-15	-20	-48	-68	-18	-8	-38

FRIDAY — LESSON 20.

Subtract—

1.	35	55	85	95	75	65	45	25	15
	-27	-47	-37	-47	-57	-37	-27	-17	-7
2.	75	45	85	95	35	15	65	55	25
	-26	-36	-46	-76	-26	-6	-46	-36	-16
3.	45	55	75	25	15	65	95	85	35
	-15	-45	-25	-5	-5	-10	-40	-40	-20
4.	16	56	96	86	46	76	66	36	26
	-9	-29	-59	-39	-29	-18	-48	-28	-18
5.	46	36	56	96	26	86	66	16	76
	-27	-17	-37	-67	-17	-47	-37	-7	-57
6.	$2 \times 6 = ?$		$12 \div 6 = ?$		$\frac{1}{2}$ of 12 = ?		$\frac{1}{4}$ of 16 = ?		
	$4 \times 3 = ?$		$12 \div 2 = ?$		$\frac{1}{3}$ of 12 = ?		$\frac{1}{5}$ of 10 = ?		
	$5 \times 2 = ?$		$10 \div 5 = ?$		$\frac{1}{6}$ of 12 = ?		$\frac{1}{3}$ of 15 = ?		
	$4 \times 4 = ?$		$10 \div 2 = ?$		$\frac{1}{4}$ of 12 = ?		$\frac{1}{5}$ of 15 = ?		
	$5 \times 3 = ?$		$16 \div 4 = ?$		$\frac{1}{2}$ of 10 = ?		$\frac{1}{2}$ of 16 = ?		

THURSDAY — LESSON XIX.

$$2 \times 11 = ?$$

$$11 \times 2 = ?$$

I. Seven men can build a house in 3 months. How long would it take 1 man to build it?

II. What 3 equal numbers make 21?

III. At 7 cents a yard, what will 3 yards of ribbon cost?

IV. Eleven boys wear how many shoes?

V. In my nice red apple there are 11 seeds. How many seeds are there in 2 such apples?

VI. Eleven pairs of mittens are how many mittens?

VII. In our block live 11 girls and as many boys. How many children live in the block?

FRIDAY — LESSON XX.

$$\frac{1}{2} \text{ of } 22 = ?$$

$$\frac{1}{11} \text{ of } 22 = ?$$

I. Eleven robins have how many eyes?

II. Eleven boys have how many hands?

III. How many 2-cent stamps can be bought with 22 cents?

IV. If you have 22 cents, how many times can you spend 11 cents?

V. If I had 22 cents and spent 11 cents twice, will I have any money left?

VI. Twenty-two pairs of gloves are how many gloves?

VII. Twenty-two cents will buy how many 2-cent pencils?

VIII. In a school month of 21 days it rained $\frac{1}{3}$ of the time. How many days did it rain?

SIXTH WEEK.

A SECOND.

MONDAY — LESSON 21.

Multiply—

1.	24 ×2	53 ×2	64 ×2	72 ×2	71 ×2	42 ×2	91 ×2	62 ×2	54 ×2
2.	35 ×2	46 ×2	57 ×2	65 ×2	84 ×2	67 ×2	39 ×2	49 ×2	59 ×2
3.	26 ×2	54 ×2	67 ×2	36 ×2	75 ×2	66 ×2	58 ×2	76 ×2	70 ×2
4.	37 ×2	68 ×2	55 ×2	69 ×2	57 ×2	89 ×2	87 ×2	27 ×2	97 ×2
5.	45 ×2	33 ×2	85 ×2	95 ×2	45 ×2	25 ×2	77 ×2	64 ×2	88 ×2
6.	29 ×2	74 ×2	81 ×2	93 ×2	99 ×2	79 ×2	48 ×2	38 ×2	91 ×2
									60 ×2

TUESDAY — LESSON 22.

1.	$28 \times 2 = ?$	$2 \times 8 = ?$	$16 \div 8 = ?$	$\frac{1}{8}$ of $16 = ?$	
	$37 \times 2 = ?$	$8 \times 2 = ?$	$16 \div 2 = ?$	$\frac{1}{4}$ of $20 = ?$	
	$54 \times 2 = ?$	$2 \times 10 = ?$	$20 \div 4 = ?$	$\frac{1}{5}$ of $20 = ?$	
	$69 \times 2 = ?$	$10 \times 2 = ?$	$20 \div 5 = ?$	$\frac{1}{2}$ of $20 = ?$	
	$75 \times 2 = ?$	$4 \times 5 = ?$	$20 \div 2 = ?$	$\frac{1}{10}$ of $20 = ?$	
	$98 \times 2 = ?$	$5 \times 4 = ?$	$20 \div 10 = ?$	$\frac{1}{2}$ of $16 = ?$	
2.	$39 \times 2 = ?$	3.	$47 \times 2 = ?$	4.	$47 + 28 = ?$
	$45 \times 2 = ?$		$58 \times 2 = ?$		$52 \div 2 = ?$
	$56 \times 2 = ?$		$63 \times 2 = ?$		$91 - 77 = ?$
	$67 \times 2 = ?$		$82 \times 2 = ?$		$75 \times 2 = ?$
	$78 \times 2 = ?$		$74 \times 2 = ?$		$58 + 35 = ?$
	$86 \times 2 = ?$		$57 \times 2 = ?$		$75 + 25 = ?$
	$99 \times 2 = ?$		$67 \times 2 = ?$		$81 - 59 = ?$

MONDAY — LESSON XXI.

I. How many school days are there in September and October together?

II. September has how many less days than October?

III. How many days are there in both months?

IV. Twenty-three cents was $\frac{1}{2}$ of a boy's money. How much money had he?

V. When 2 boys are absent in a room of 23 boys, how many are present?

VI. In September 9 days were cloudy. How many days were clear?

VII. October had 23 school days and September had but 20. How many more school days were there in October than in September?

TUESDAY — LESSON XXII.

$$22 \div 2 = ?$$

$$22 \div 11 = ?$$

I. Out of 22 school days I was absent $\frac{1}{2}$ of the time. How many days was I absent?

II. If I pay 18 cents for a peck of beans, what will a half bushel cost?

III. If 22 boys are playing ball and $\frac{1}{2}$ of them go home, how many go home?

IV. I have 22 books and have read $\frac{1}{2}$ of them. How many have I read?

V. Two blocks is what part of 22 blocks?

VI. What is $\frac{1}{11}$ of 22 packs of firecrackers?

THURSDAY — LESSON 23.

Divide—

1. $2 \overline{)32}$	$2 \overline{)56}$	$2 \overline{)94}$	$2 \overline{)70}$	$7 + 2 = ?$
$2 \overline{)36}$	$2 \overline{)58}$	$2 \overline{)98}$	$2 \overline{)78}$	$5 + 2 = ?$
$2 \overline{)38}$	$2 \overline{)52}$	$2 \overline{)96}$	$2 \overline{)72}$	$9 + 2 = ?$
$2 \overline{)30}$	$2 \overline{)50}$	$2 \overline{)92}$	$2 \overline{)76}$	$3 + 2 = ?$
$2 \overline{)34}$	$2 \overline{)56}$	$2 \overline{)90}$	$2 \overline{)74}$	$11 + 2 = ?$
2. $2 \overline{)46}$	$2 \overline{)40}$	$2 \overline{)54}$	$2 \overline{)78}$	$13 + 2 = ?$
$2 \overline{)66}$	$2 \overline{)60}$	$2 \overline{)28}$	$2 \overline{)98}$	$15 + 2 = ?$
$2 \overline{)86}$	$2 \overline{)80}$	$2 \overline{)34}$	$2 \overline{)58}$	$19 + 2 = ?$
$2 \overline{)106}$	$2 \overline{)90}$	$2 \overline{)68}$	$2 \overline{)38}$	$17 + 2 = ?$
$2 \overline{)56}$	$2 \overline{)50}$	$2 \overline{)76}$	$2 \overline{)48}$	$21 + 2 = ?$

FRIDAY — LESSON 24.

1. $72 \div 2 = ?$	$42 \div 2 = ?$	$70 \div 2 = ?$	$23 \div 2 = ?$
$86 \div 2 = ?$	$74 \div 2 = ?$	$34 \div 2 = ?$	$29 \div 2 = ?$
$44 \div 2 = ?$	$98 \div 2 = ?$	$56 \div 2 = ?$	$27 \div 2 = ?$
$38 \div 2 = ?$	$48 \div 2 = ?$	$40 \div 2 = ?$	$25 \div 2 = ?$
$54 \div 2 = ?$	$52 \div 2 = ?$	$76 \div 2 = ?$	$31 \div 2 = ?$
$78 \div 2 = ?$	$64 \div 2 = ?$	$92 \div 2 = ?$	$37 \div 2 = ?$
$36 \div 2 = ?$	$96 \div 2 = ?$	$36 \div 2 = ?$	$35 \div 2 = ?$
2. $2 \times 12 = ?$	$24 \div 2 = ?$	$\frac{1}{2}$ of $24 = ?$	$6 \times 4 = ?$
$12 \times 2 = ?$	$24 \div 12 = ?$	$\frac{1}{3}$ of $24 = ?$	$4 \times 6 = ?$
$3 \times 8 = ?$	$24 \div 8 = ?$	$\frac{1}{8}$ of $24 = ?$	$\frac{1}{4}$ of $24 = ?$
$8 \times 3 = ?$	$24 \div 3 = ?$	$\frac{1}{12}$ of $24 = ?$	$\frac{1}{6}$ of $24 = ?$

3. There are — days in September.
 There are — days in October.
 There are — days in November.
 There are — days in December.
 There are — days in January.

THURSDAY — LESSON XXIII.

$$2 \times 12 = ?$$

$$12 \times 2 = ?$$

I. Willie had 22 Roman candles and fired off $\frac{1}{2}$ of them. How many did he fire off?

II. In a box of 22 torpedoes $\frac{1}{2}$ of them were bad. How many were bad?

III. There are 16 ounces in a pound. If I buy half a pound of cloves, how many ounces will I get?

IV. A quarter of a pound of pepper is how many ounces?

V. Mamma bought 4 ounces of candy for 5 cents. What part of a pound did she buy?

VI. If 4 ounces of candy cost 5 cents, what will a pound cost?

VII. If meat is 16 cents a pound, what will 1 pound and 4 ounces cost?

FRIDAY — LESSON XXIV.

I. At 16 cents a pound, what will 8 ounces of cheese cost?

II. Six ounces of camphor gum, at 3 cents an ounce, will cost how much?

III. The average temperature for the first week in September, 1894, was 65° . For the second week it was 62° . What can you say of the second week?

IV. How many boys, each weighing 50 pounds, will it take to equal 100 pounds?

V. Two pounds and 8 ounces of butter are how many ounces?

VI. In 12 quarts how many pints are there?

SEVENTH WEEK.

A SECOND.

MONDAY — LESSON 25.

Divide—

1. $2 \overline{)51}$	$2 \overline{)65}$	2. $2 \overline{)71}$	$2 \overline{)82}$	$2 \overline{)53}$
$2 \overline{)25}$	$2 \overline{)61}$	$2 \overline{)79}$	$2 \overline{)81}$	$2 \overline{)73}$
$2 \overline{)57}$	$2 \overline{)69}$	$2 \overline{)91}$	$2 \overline{)85}$	$2 \overline{)99}$
$2 \overline{)55}$	$2 \overline{)67}$	$2 \overline{)95}$	$2 \overline{)87}$	$2 \overline{)41}$
$2 \overline{)59}$	$2 \overline{)75}$	$2 \overline{)93}$	$2 \overline{)89}$	$2 \overline{)77}$
$2 \overline{)45}$	$2 \overline{)37}$	$2 \overline{)92}$	$2 \overline{)75}$	$2 \overline{)96}$
$2 \overline{)43}$	$2 \overline{)39}$	$2 \overline{)74}$	$2 \overline{)64}$	$2 \overline{)50}$
$2 \overline{)49}$	$2 \overline{)35}$	$2 \overline{)56}$	$2 \overline{)52}$	$2 \overline{)46}$
$2 \overline{)31}$	$2 \overline{)33}$	$2 \overline{)59}$	$2 \overline{)87}$	$2 \overline{)78}$
$2 \overline{)97}$	$2 \overline{)47}$	$2 \overline{)84}$	$2 \overline{)66}$	$2 \overline{)35}$

TUESDAY — LESSON 26.

1. There are — pints in 1 quart.
 There are — quarts in 1 gallon.
 There are — pecks in 1 bushel.

2. $34 \div 2 = ?$	$54 \div 2 = ?$	$90 \div 2 = ?$
$50 \div 2 = ?$	$96 \div 2 = ?$	$77 \div 2 = ?$
$60 \div 2 = ?$	$72 \div 2 = ?$	$61 \div 2 = ?$
$44 \div 2 = ?$	$58 \div 2 = ?$	$87 \div 2 = ?$
$65 \div 2 = ?$	$78 \div 2 = ?$	$46 \div 2 = ?$

3. There are 2 —'s in 24.
 There are 3 —'s in 24.
 There are 4 —'s in 24.
 There are 8 —'s in 24.

MONDAY — LESSON XXV.

- I.* How many inches are there in 2 1-foot rulers?
 - II.* Two dozen bananas are how many bananas?
 - III.* In 2 years how many months are there?
 - IV.* A little boy earns 2 cents a day selling papers. He will earn how much in 12 days?
 - V.* If it costs \$2 a month for street car fare, what will it cost for 12 months?
 - VI.* If a mason earns \$12 each week, how much will he earn in 2 weeks?
 - VII.* If 2 men can build a house in 12 weeks, how long would it take 1 man to do the same work?
 - VIII.* Harry's hens lay 2 eggs each day. How many days will it take them to lay 2 dozen eggs?
 - IX.* Two dozen and 10 oranges are how many oranges?
-

TUESDAY — LESSON XXVI.

- I.* What will 2 dozen postal cards cost?
- II.* Three spiders have how many legs?
- III.* Eight 3-cent pieces are how much money?
- IV.* Eight clover stems have how many leaflets?
- V.* Two feet are how many inches?
- VI.* Eight yards are how many feet?
- VII.* Three pecks of beans are how many quarts?
- VIII.* If milk is 3 cents a quart, what will 2 gallons cost?
- IX.* A triangle that is 8 inches on each side is how many inches around?

THURSDAY — LESSON 27.

1. Mary spent $\frac{1}{4}$ of 24 cents for candy. How much did she spend?

2. A girl had 37 cents. She kept 5 of them and divided the rest equally between 2 girls. How many cents did each receive?

Subtract—

$$\begin{array}{r} 3. \quad 96 \quad 75 \quad 63 \quad 74 \quad 90 \quad 84 \quad 68 \\ -47 \quad -50 \quad -49 \quad -47 \quad -45 \quad -48 \quad -59 \end{array}$$

Multiply—

$$\begin{array}{r} 4. \quad 29 \quad 68 \quad 87 \quad 56 \quad 75 \quad 44 \quad 93 \\ \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \end{array}$$

Add—

$$\begin{array}{r} 5. \quad 84 \quad 25 \quad 64 \quad 49 \quad 54 \quad 67 \quad 58 \\ +73 \quad +80 \quad +37 \quad +63 \quad +19 \quad +29 \quad +39 \end{array}$$

Divide—

$$6. \quad 2)\underline{96} \quad 2)\underline{54} \quad 2)\underline{38} \quad 2)\underline{70} \quad 2)\underline{46}$$

FRIDAY — LESSON 28.

$$1. \quad 29 \times 2 = ? \quad 57 \times 2 = ? \quad 18 \times 2 = ? \quad 19 \times 2 = ?$$

$$36 \times 2 = ? \quad 36 \times 2 = ? \quad 17 \times 2 = ? \quad 10 \times 2 = ?$$

$$41 \times 2 = ? \quad 49 \times 2 = ? \quad 16 \times 2 = ? \quad 15 \times 2 = ?$$

Subtract—

$$\begin{array}{r} 2. \quad 100 \quad 92 \quad 87 \quad 58 \quad 85 \quad 64 \quad 81 \quad 99 \\ -63 \quad -47 \quad -78 \quad -49 \quad -59 \quad -57 \quad -73 \quad -80 \end{array}$$

Multiply—

$$\begin{array}{r} 3. \quad 60 \quad 41 \quad 32 \quad 38 \quad 45 \quad 28 \quad 67 \quad 96 \\ \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \end{array}$$

Add—

$$\begin{array}{r} 4. \quad 64 \quad 27 \quad 34 \quad 55 \quad 73 \quad 26 \quad 76 \quad 39 \quad 54 \\ +10 \quad +96 \quad +28 \quad +96 \quad +85 \quad +46 \quad +85 \quad +47 \quad +67 \end{array}$$

Divide—

$$5. \quad 2)\underline{98} \quad 2)\underline{58} \quad 2)\underline{64} \quad 2)\underline{32} \quad 2)\underline{52} \quad 2)\underline{74} \quad 2)\underline{86}$$

THURSDAY — LESSON XXVII.

$$24 \div 4 = ?$$

$$24 \div 6 = ?$$

I. A boy bought a knife for 8 cents, and sold it for 3 times as much as it cost him. For how much did he sell it?

II. One little girl was absent 8 days in each of the fall months. How many days was she absent in all?

III. What will 3 pounds of sugar cost at 8 cents a pound?

IV. If 8 sheep cost \$24, what will 1 sheep cost?

V. Twenty-four feet of rope are how many yards of rope?

VI. A railroad car has 8 wheels. Twenty-four wheels will supply how many cars?

VII. At \$3 a day, how many days must a man work to earn \$24?

FRIDAY — LESSON XXVIII.

I. At 8 cents a pound, how large a chicken can you buy with 24 cents?

II. Twenty-four cents will buy how many pounds of grapes at 8 cents a pound?

III. Nellie takes 3 music lessons a week. In how many weeks will she take 24 lessons?

IV. How many 3-cent pieces will 24 cents make?

V. Twenty-four ounces of butter are how many pounds?

VI. How many triangles will 24 sticks make?

VII. Twenty-four peach trees, with 8 trees in each row, will make how many rows?

EIGHTH WEEK.

A SECOND.

MONDAY — LESSON 29.

1. On September 20th, 21st, and 22nd the days and nights are equal. How many hours are there in each day?

2. $100 + 63 = ?$	$44 \times 2 = ?$	$88 \div 2 = ?$	$95 - 27 = ?$
$92 + 47 = ?$	$36 \times 2 = ?$	$94 \div 2 = ?$	$63 - 36 = ?$
$58 + 39 = ?$	$55 \times 2 = ?$	$36 \div 2 = ?$	$49 - 42 = ?$
$67 + 29 = ?$	$63 \times 2 = ?$	$86 \div 2 = ?$	$85 - 55 = ?$
$54 + 19 = ?$	$48 \times 2 = ?$	$74 \div 2 = ?$	$90 - 24 = ?$

Multiply—

3. $\begin{array}{r} 55 \\ \times 2 \end{array}$	$\begin{array}{r} 84 \\ \times 2 \end{array}$	$\begin{array}{r} 70 \\ \times 2 \end{array}$	$\begin{array}{r} 52 \\ \times 2 \end{array}$	$\begin{array}{r} 79 \\ \times 2 \end{array}$	$\begin{array}{r} 29 \\ \times 2 \end{array}$	$\begin{array}{r} 76 \\ \times 2 \end{array}$	$\begin{array}{r} 88 \\ \times 2 \end{array}$	$5 \times 5 = ?$	$6 \times 4 = ?$
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Divide—

4. $2 \overline{)94}$	$2 \overline{)78}$	$2 \overline{)46}$	$2 \overline{)50}$	$2 \overline{)52}$	$2 \overline{)64}$	$2 \overline{)76}$	$25 \div 5 = ?$
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TUESDAY — LESSON 30.

Subtract—

1. $\begin{array}{r} 106 \\ -77 \end{array}$	$\begin{array}{r} 76 \\ -38 \end{array}$	$\begin{array}{r} 59 \\ -19 \end{array}$	$\begin{array}{r} 84 \\ -76 \end{array}$	$\begin{array}{r} 92 \\ -29 \end{array}$	$\begin{array}{r} 100 \\ -78 \end{array}$	$\begin{array}{r} 87 \\ -56 \end{array}$	$\begin{array}{r} 43 \\ -7 \end{array}$
--	--	--	--	--	---	--	---

Add—

2. $\begin{array}{r} 60 \\ +72 \end{array}$	$\begin{array}{r} 34 \\ +55 \end{array}$	$\begin{array}{r} 49 \\ +64 \end{array}$	$\begin{array}{r} 85 \\ +28 \end{array}$	$\begin{array}{r} 58 \\ +74 \end{array}$	$\begin{array}{r} 63 \\ +77 \end{array}$	$\begin{array}{r} 82 \\ +19 \end{array}$	$\begin{array}{r} 27 \\ +75 \end{array}$
---	--	--	--	--	--	--	--

Divide—

3. $2 \overline{)98}$	$2 \overline{)70}$	$2 \overline{)54}$	$2 \overline{)100}$	$2 \overline{)34}$	$2 \overline{)83}$	$2 \overline{)90}$	$2 \overline{)67}$
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4. If a man only works 1 week, what part of 24 days does he work?

5. In a house of 24 windows $\frac{1}{4}$ of them have no glass. How many windows have no glass?

MONDAY — LESSON XXIX.

I. There are 6 working days in a week. How many working days are there in 4 weeks?

II. Six horses wear how many shoes?

III. How many nails will it take to shoe a horse, with 6 nails in each shoe?

IV. Four flies have how many legs?

V. Six gallon cans will hold how many quarts?

VI. If celery is 4 cents a bunch, what will 6 bunches cost?

VII. Six wagons have how many wheels?

VIII. In 6 months how many weeks are there?

IX. A schoolroom has 4 rows of desks and 6 desks in each row. How many desks are there?

TUESDAY — LESSON XXX.

$\frac{1}{4}$ of 24 = ?

$\frac{1}{6}$ of 24 = ?

I. If 6 men can build a house in 4 months, how long will it take 1 man to build it?

II. In 6 bushels of peaches how many pecks are there?

III. How many 2-cent stamps can you buy with 24 cents?

IV. How many quarts of milk are there in 24 pints?

V. Twenty-four gloves in a box are how many pairs of gloves?

VI. How many dozen eggs are there in 24 eggs?

VII. There are 2 horses in a span. Twenty-four horses are how many spans?

VIII. In 24 months how many years are there?

THURSDAY — LESSON 31. •

$$\begin{array}{cccccccc} 1. & 29 & 76 & 88 & 80 & 97 & 46 & 39 & 45 & 65 \\ & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 \end{array}$$

$$\begin{array}{cccccccc} 2. & 57 & 98 & 100 & 91 & 95 & 61 & 79 & 85 & 82 & 81 \\ & -42 & -79 & -54 & -77 & -78 & -50 & -50 & -17 & -13 & -19 \end{array}$$

Add—

$$\begin{array}{cccccccc} 3. & 86 & 22 & 16 & 89 & 75 & 69 & 18 & 59 & 73 & 17 \\ & +25 & +78 & +19 & +16 & +14 & +13 & +19 & +16 & +18 & +97 \end{array}$$

4. There are 24 hours in a day. We are in school 6 hours a day. What part of the day are we in school?

5. Jane had 24 cents and she spent $\frac{1}{6}$ of it for candy. How much did she spend for candy and what did she have left?

FRIDAY — LESSON 32.

$$\begin{array}{cccccccc} 1. & 71 & 26 & 56 & 37 & 100 & 57 & 75 & 84 & 90 & 47 \\ & -13 & +62 & -46 & +17 & -86 & -49 & +12 & +48 & -70 & +74 \end{array}$$

$$\begin{array}{cccccccc} 2. & 66 & 55 & 87 & 102 & 70 & 81 & 69 & 99 & 50 & 38 & 5 \\ & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 & \times 5 \end{array}$$

3. With a span of horses for each street car, how many cars will 24 horses draw?

4. How long will it take a boy who is earning 4 cents an hour to earn 24 cents?

5. A milkman has 24 pint bottles of milk. To how many families can he leave a quart?

6. With 2 loaves of bread for each family, how many families will 2 dozen loaves supply?

7. Twenty-four hours make a day. How many hours are there in 2 days?

THURSDAY — LESSON XXXI.

I. How many slates, at 6 cents each, can be bought with 24 cents?

II. At 4 cents a quart, how many quarts of milk can be bought with 24 cents?

III. Twenty-four working days are how many weeks?

IV. Twenty-four pecks will make how many bushels of wheat?

V. How many loaves of bread, at 6 cents a loaf, can be bought with 24 cents?

VI. When coal is \$6 a ton, how many tons can be bought with \$24?

VII. How may 24 nuts be divided equally among 4 boys?

FRIDAY — LESSON XXXII.

I. How many bunches of radishes, with 6 in each bunch, can be made with 24 radishes?

II. Twenty-four cents will pay for how many yards of muslin at 6 cents a yard?

III. How many spools of thread, at 4 cents a spool, can be bought with 24 cents?

IV. A boy gave away 8 cents, which was $\frac{1}{3}$ of his money. How much money had he?

V. If apples are worth 24 cents a peck, what will $\frac{1}{8}$ of a peck cost?

VI. Three feet is what part of 8 yards?

VII. If beans are worth 24 cents a peck, what will 1 quart cost?

NINTH WEEK.

A SECOND.

MONDAY—LESSON XXXIII.

- I. One yard of ribbon is what part of 24 feet?
 - II. A fox killed 3 of Harry's chickens, which was $\frac{1}{8}$ of them. How many chickens had Harry?
 - III. James bought 9 packages of firecrackers for 24 cents. What would $\frac{1}{3}$ of 9 packages cost?
 - IV. A boy had 24 cents, and spent 3 cents a day. How long did it take him to spend his money?
 - V. How many feet are there in $\frac{1}{2}$ of 8 yards?
 - VI. How many hours are there in $\frac{1}{3}$ of a day?
-

• TUESDAY—LESSON XXXIV.

- I. Twenty-four years are 3 times Hattie's age. What is Hattie's age?
- II. Mamma had 2 dozen eggs. She used $\frac{1}{4}$ of them for a cake. How many eggs did she put in the cake?
- III. Three hours are what part of a day?
- IV. Mary had 24 words to write. She has written 8 of them. What part of her words has she written?
- V. On a clothes-line were 2 dozen towels. Three of them blew down. What part of them were on the ground?
- VI. From a class of 24 pupils 4 were absent on Monday. How many were present?
- VII. Albert had 24 pigeons and $\frac{1}{3}$ of them were white. How many were white?
- VIII. Five 5-cent led pencils will cost how much?

THURSDAY — LESSON XXXV.

$$5 \times 5 = ?$$

$$25 = 5 \times ?$$

I. If vinegar costs 24 cents a gallon, what will 1 quart cost?

II. In a class of 24 pupils 4 were absent. What part of the class were absent?

III. Edith and Elaine put their rulers together. How many inches are there in this long ruler?

IV. Three spiders and a frog have how many legs?

V. Mamma paid 25 cents for a steak and 18 cents for some cheese. How much did both cost?

VI. On December 21st the night is 15 hours long. How long is the day?

VII. If a boy earns 35 cents on Monday and 9 cents on Tuesday, how much money will he have?

FRIDAY — LESSON XXXVI.

I. Five nickels are how much money?

II. When flour is \$5 a barrel what will 5 barrels cost?

III. How many fingers have 5 hands?

IV. Five maple leaves have how many points?

V. Five pansy blossoms have how many petals?

VI. Five stars have how many points?

VII. At 5 cents a bottle, what will 5 bottles of mucilage cost?

VIII. In a class of 24 pupils $\frac{1}{6}$ of them wear glasses. How many wear glasses?

TENTH WEEK.

A SECOND.

MONDAY — LESSON XXXVII.

I. I want to make a bed for radishes that shall be just 5 feet long and 5 feet wide. What shape is it and how many square feet are there in it?

II. Five rides on the street car will cost how much, if you pay a nickel each time?

III. 18 106 47 85 90 80 75 80 59 25
 +96 -16 +64 +58 -76 -35 -15 -26 40 +10

IV. I wish to plant a few hills of corn and I have only 25 kernels of corn. I must put 5 kernels in each hill. How many hills of corn will I have?

V. How many 5-cent dolls can I buy for 25 cents?

VI. How many roses, at 5 cents each, can I buy for 25 cents?

TUESDAY — LESSON XXXVIII.

I. A market woman put 25 beets in 5 bunches. How many beets did she put in each bunch?

II. Twenty-five cents will buy how many 5-cent spools of thread?

III. Twenty-five dollars will buy how many \$5 chairs?

IV. A man bought a wagon for \$56. For what must he sell it to gain \$14?

V. If John has 3 quarters of a dollar, how much must he earn to make a dollar?

VI. 2)91 2)54 2)50 2)70 2)90 2)75 2)64 2)42 2)86

VII. 99 54 28 63 73 49 100 42 61 91
 -18 -17 +17 +36 -37 -26 +75 +24 -37 -49

THURSDAY — LESSON XXXIX.

I. How many 2-cent pencils can be bought for 62 cents?

II. If I paid a grocer 65 cents for a gallon of molasses and 19 cents for a brush, how much did I spend?

III. Mamma paid 15 cents for a pound of steak and twice as much for a peck of apples. What did both cost her?

IV. Clarence gave 6 cents for a sponge, which was $\frac{1}{4}$ of all his money. How much money had he?

V. From 4×7 take 3×3 .

VI. $\begin{array}{r} 39 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 48 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 95 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 84 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 71 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 83 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 94 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 58 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 59 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 69 \\ \times 2 \\ \hline \end{array}$

VII. $\begin{array}{r} 2 \overline{)80} \\ \hline \end{array}$ $\begin{array}{r} 2 \overline{)42} \\ \hline \end{array}$ $\begin{array}{r} 2 \overline{)54} \\ \hline \end{array}$ $\begin{array}{r} 2 \overline{)76} \\ \hline \end{array}$ $\begin{array}{r} 2 \overline{)88} \\ \hline \end{array}$ $\begin{array}{r} 2 \overline{)98} \\ \hline \end{array}$ $\begin{array}{r} 2 \overline{)108} \\ \hline \end{array}$ $\begin{array}{r} 2 \overline{)76} \\ \hline \end{array}$

FRIDAY — LESSON XL.

I. $\begin{array}{r} 76 \\ -12 \\ \hline \end{array}$ $\begin{array}{r} 13 \\ -89 \\ \hline \end{array}$ $\begin{array}{r} 72 \\ +80 \\ \hline \end{array}$ $\begin{array}{r} 100 \\ +96 \\ \hline \end{array}$ $\begin{array}{r} 41 \\ +17 \\ \hline \end{array}$ $\begin{array}{r} 98 \\ +89 \\ \hline \end{array}$ $\begin{array}{r} 57 \\ -29 \\ \hline \end{array}$ $\begin{array}{r} 89 \\ +80 \\ \hline \end{array}$

II. If our school yard has 25 trees, and $\frac{1}{5}$ of them are elms, how many are elm trees?

III. Twenty-five boys went to the woods after trees for Arbor Day, and $\frac{1}{5}$ of them fell in the water. How many got wet?

IV. Georgie's twig has 25 buds on it, and Earl's has only $\frac{1}{5}$ as many. How many buds has Earl's twig?

V. Fred cut 25 willow sticks from a tree. He kept $\frac{1}{5}$ of them and gave the rest to the boys to make whistles. How many did he keep?

ELEVENTH WEEK.**A SECOND.****MONDAY — LESSON XLI.**

I. Of 25 trees that were planted this spring, $\frac{1}{5}$ died. How many trees died?

II. Roy picked 25 quarts of cherries. How many pecks did that make?

III. Five cents is $\frac{1}{6}$ of a boy's money. How much money has the boy?

IV. A farmer had 25 bushels of corn. How many pecks could he sell?

V. What is the cost of 6 tickets at 10 cents each?

VI. Albert bought a sled for 87 cents, and he sold it for 13 cents less than he gave for it. What did he sell it for?

TUESDAY — LESSON XLII.

I. Which is the 6th day of the week?

II. How many more months are there in this year?

III. Twelve 2-cent stamps will cost how much?

IV. What is the cost of 2 pounds of steak at 12 cents a pound?

V. In September the wind was in the west every day but eleven. How many days was there a west wind?

VI. In September there were 20 school days and $\frac{1}{5}$ of them were cloudy. How many cloudy days were there?

THURSDAY — LESSON XLIII.

I. A milkman started out with 20 quarts of milk. He left a gallon at the first house. What part of his milk had he sold?

II. Two flags have how many stripes?

III. Thirteen rabbits have how many ears?

IV. Thirteen books have how many covers?

V. Thirteen boys have how many mittens?

VI. At 13 cents each, what will 2 slates cost?

VII. George had 13 pennies and his brother had twice as many. How much money had his brother?

VIII. If Willie finds 13 eggs a day, how many eggs will he find in 2 days?

IX. If John earns 2 cents an hour, how much will he earn in 13 hours?

X. If a building has 13 windows on one side, how many windows has it on 2 sides?

XI. Thirteen 2-cent pieces are how much money?

XII. Thirteen quarts of oysters are how many pints?

XIII. When oysters are 13 cents a pint, what will a quart cost?

XIV. How many flags are 12 flags and 14 flags?

FRIDAY — LESSON XLIV.

REVIEW.

- | | | |
|-----------------------------|-------------------------|-------------------------------------|
| 1. 20 is 4×5 | 24 is 12×2 | 25 is 5×5 |
| 20 is 5×4 | 24 is 2×12 | 21 is 3×7 , 7×3 |
| 20 is 2×10 | 24 is 8×3 | 26 is 2×13 , 13×2 |
| 20 is 10×2 | 24 is 6×4 | 22 is 2×11 , 11×2 |
| | | |
| 2. $\frac{1}{2}$ of 24 = ? | $\frac{1}{8}$ of 24 = ? | $\frac{1}{4}$ of 24 = ? |
| $\frac{1}{2}$ of 20 = ? | $\frac{1}{8}$ of 8 = ? | $\frac{1}{3}$ of 24 = ? |
| $\frac{1}{2}$ of 26 = ? | $\frac{1}{8}$ of 16 = ? | $\frac{1}{3}$ of 3 = ? |
| $\frac{1}{2}$ of 22 = ? | $\frac{1}{6}$ of 24 = ? | $\frac{1}{3}$ of 9 = ? |
| | | |
| 3. $\frac{1}{6}$ of 18 = ? | $\frac{1}{4}$ of 20 = ? | $\frac{1}{5}$ of 20 = ? |
| $\frac{1}{7}$ of 7 = ? | $\frac{1}{6}$ of 6 = ? | $\frac{1}{4}$ of 4 = ? |
| $\frac{1}{5}$ of 18 = ? | $\frac{1}{7}$ of 21 = ? | $\frac{1}{6}$ of 12 = ? |
| $\frac{1}{5}$ of 5 = ? | $\frac{1}{5}$ of 9 = ? | $\frac{1}{7}$ of 14 = ? |
| | | |
| 4. $\frac{1}{10}$ of 20 = ? | $\frac{1}{2}$ of 8 = ? | $24 \div 2 = ?$ |
| $\frac{1}{10}$ of 10 = ? | $\frac{1}{2}$ of 6 = ? | $12 \div 3 = ?$ |
| $\frac{1}{2}$ of 18 = ? | $\frac{1}{2}$ of 14 = ? | $18 \div 2 = ?$ |
| $\frac{1}{2}$ of 2 = ? | $21 \div 3 = ?$ | $10 \div 5 = ?$ |
| $\frac{1}{2}$ of 12 = ? | $4 \div 4 = ?$ | $20 \div 2 = ?$ |
| $\frac{1}{2}$ of 10 = ? | $20 \div 5 = ?$ | $12 \div 4 = ?$ |
| $\frac{1}{2}$ of 4 = ? | $9 \div 3 = ?$ | $3 \div 3 = ?$ |
| $25 \div 5 = ?$ | $6 \div 2 = ?$ | $18 \div 3 = ?$ |
| $18 \div 6 = ?$ | $10 \div 2 = ?$ | $24 \div 3 = ?$ |
| $12 \div 6 = ?$ | $15 \div 5 = ?$ | $4 \div 2 = ?$ |
| $16 \div 4 = ?$ | $12 \div 2 = ?$ | $4 \times 6 = ?$ |

TWELFTH WEEK.**A SECOND.****MONDAY — LESSON XLV.**

$$26 \div 2 = ?$$

$$26 \div 13 = ?$$

I. When butter is 26 cents a pound, what will $\frac{1}{2}$ pound cost?

II. Clara has 26 crocuses in her flower bed, and May has $\frac{1}{2}$ as many. How many has May?

III. If 2 tons of coal are needed to run an engine 80 miles, how far will 1 ton run it?

IV. What will 1 peck of apples cost at \$1 a bushel?

V. At 26 cents a pound, what will $\frac{1}{2}$ pound of cheese cost?

VI. When oranges are 20 cents a dozen, how many can you buy for 10 cents?

TUESDAY — LESSON XLVI.

I. If a boy has 47 ears of corn and he pops $\frac{1}{2}$ of them at Christmas time, how many ears did he pop?

II. What will 2 dozen oranges cost at 25 cents a dozen?

III. Marion gave 50 cents for a handkerchief and $\frac{1}{2}$ as much for a pin. What did the pin cost?

IV. How many 5-cent pieces will equal 2 dimes?

V. If you pick 3 roses every day for 8 days, how many will you pick altogether?

VI. How many inches are there in $\frac{1}{3}$ of a foot?

VII. Which is the longer, $\frac{1}{3}$ of a foot or $\frac{1}{4}$ of a foot?

THURSDAY — LESSON XLVII.

$$27 = 3 \times 9$$

$$9 \times 3 = ?$$

$$27 = 9 \times 3$$

$$3 \times 9 = ?$$

I. How long a track will a wheel that is 16 feet around make with one turn?

II. How many square inches are there in one cover of your book?

III. How high is the door casing in this room?

IV. How wide is the door?

V. When butter is 25 cents a pound, what will $\frac{1}{2}$ of a pound cost?

VI. Twenty quarts of oil will fill how many gallon cans?

FRIDAY — LESSON XLVIII.

I. Edith has 26 cents. How many 2-cent stamps can she buy?

II. In a box of 26 boots how many pairs of boots are there?

III. Twenty-six stripes will make how many flags?

IV. Twenty-six pints of fruit will fill how many quart cans?

V. Two crabs and a fly have how many legs?

VI. Twenty-six half dollars are how many dollars?

VII. In 26 shoes how many pairs of shoes are there?

VIII. How many pecks in 26 quarts of cherries?

IX. In 26 pecks how many bushels are there?

THIRTEENTH WEEK.

A SECOND.

MONDAY — LESSON XLIX.

I. A merchant bought a book for 75 cents, and sold it for 65 cents. How much did he lose?

II. Three weeks and 5 days are how many days?

III. Eleven pairs of rubbers and one odd one are how many rubbers?

IV. A lady divided 20 cents equally among 4 poor children. How many pennies did she give each?

V. In 9 yards how many feet are there?

VI. May is 3 years old, and her father is 9 times as old. How old is her father?

VII. If a man works 9 hours a day, how many hours will he work in 3 days?

TUESDAY — LESSON L.

$$27 \div 3 = ?$$

$$27 \div 9 = ?$$

I. Fred's hens lay 9 eggs daily. How many eggs will he gather in 3 days?

II. A mason earns \$3 a day. How much will he earn in 9 days?

III. How many hours are there in 3 days in December, if each day is 9 hours long?

IV. At 6 cents a pound, what will 1 pound and 8 ounces of rice cost?

V. If 4 tops cost 12 cents, what will 1 top cost?

VI. A man pays \$3 a week for his board. What will 9 weeks' board cost him?

THURSDAY — LESSON LI.

- I. Nine clover leaves have how many leaflets?
 - II. How many corners have 9 triangles?
 - III. If 1 top cost 3 cents, what will 9 tops cost?
 - IV. How many 3-cent pieces have I, if I have 27 cents?
 - V. One working-day is 9 hours long. How many working-days are there in 27 hours?
 - VI. When soft wood is \$3 a cord, how many cords can be bought with \$27?
 - VII. A farmer had 27 turkeys and sold 9 each week. How many weeks did it take him to sell his turkeys.
-

FRIDAY — LESSON LII.

- I. What will 1 sheep cost if 3 sheep cost \$27?
- II. Twenty-seven feet of rope are how many yards of rope?
- III. In 27 square feet how many square yards are there?
- IV. At \$9 each, how many calves can be bought with \$27?
- V. How many dozen cookies, at 9 cents a dozen, can be bought with 27 cents?
- VI. John is 9 years old and his brother Harry is 27. How many times as old as John is his brother?
- VII. Write the Roman letters to 27.
- VIII. Write in words all the numbers from 10 to 20.
- IX. How many balls can be bought with 27 cents, if 1 ball costs 9 cents?

FOURTEENTH WEEK.

A SECOND.

MONDAY — LESSON LIII.

$$\frac{1}{3} \text{ of } 27 = ? \qquad \frac{1}{9} \text{ of } 27 = ?$$

I. Two dimes and a 2-cent piece are how much money?

II. A 3-cent piece is what part of 27 cents?

III. If it takes 27 yards of ribbon to trim 9 hats, what part of the ribbon is on each hat?

IV. Mamma had 27 eggs. She used $\frac{1}{3}$ of them in making cake and a custard. How many did she use?

V. Peter had 27 rabbits and sold $\frac{1}{3}$ of them. How many had he left?

VI. How many rabbits did Peter sell?

VII. If 9 cents is $\frac{1}{3}$ of Carrie's money, how much money has she?

TUESDAY — LESSON LIV.

I. Bennie is 9 years old, which is just $\frac{1}{3}$ of his mother's age. How old is his mother?

II. If $\frac{1}{3}$ of 27 pupils are girls, how many girls are there?

III. How many boys are there?

IV. Nine is what part of 27?

V. In a class of 27 pupils $\frac{1}{3}$ of them were absent. How many were present?

VI. What will $\frac{1}{3}$ of a yard of ribbon cost at 27 cents a yard?

VII. What will 1 pint of oysters cost at 27 cents a quart?

THURSDAY — LESSON LV.

I. A dozen and a half of oranges and 4 lemons are how many things?

II. Four weeks and 5 days are how many days?

III. Three dimes and 4 pennies are how much money?

IV. James gave a boy 3 cents to buy some bread. It was $\frac{1}{4}$ of all his money. How much money had James?

V. Labor day is the first Monday in——. Thanksgiving day is the last Thursday in ——. Christmas day is the — of December. New Year's day is the — of January.

VI. Write the names of the days of a week. How many days are there in 3 weeks?

VII. If there are 7 panels in a door, how many are there in 3 doors?

FRIDAY — LESSON LVI.

$$2 \times 14 = ?$$

$$4 \times 7 = ?$$

$$14 \times 2 = ?$$

$$7 \times 4 = ?$$

I. What will 4 pounds of sugar cost at 7 cents a pound?

II. Seven wagons have how many wheels?

III. In 7 gallons of milk how many quarts are there?

IV. How many stars will it take to make 4 great dip-pers on my slate?

V. Four quarts of peanuts, at 7 cents a quart, will cost how much?

VI. A barrel that holds 7 gallons of oil will contain how many quarts?

FIFTEENTH WEEK.

A SECOND.

MONDAY — LESSON LVII.

I. At 7 cents a cake, what will 4 cakes of maple sugar cost?

II. Seven small loaves of bread, at 4 cents each, will cost how much?

III. Seven gallons of oysters are how many quarts?

IV. Fourteen oxen have how many horns?

V. Fourteen quarts of ginger ale are how many pints?

VI. If a dress cost \$14, and a coat \$14, what will both cost?

VII. How many 50-cent pieces are there in \$14?

TUESDAY — LESSON LVIII.

$$28 \div 2 = ?$$

$$28 \div 4 = ?$$

$$28 \div 14 = ?$$

$$28 \div 7 = ?$$

I. A boy earns 2 cents a day. How much will he earn in 14 days?

II. Fourteen boys have how many skates?

III. A moon has 2 weeks light and 2 weeks darkness. How many of our days are there in a moon's month?

IV. There is a new moon every 4 weeks. How many moons are there in 28 weeks?

V. How many sponges, at 7 cents each, can be bought with 28 cents?

THURSDAY — LESSON LIX.

I. At 4 cents a spool, how many spools of thread can be bought with 28 cents?

II. How many yards of 7-cent cloth can be bought with 28 cents?

III. There are 28 days in the month of February. How many weeks are there in February?

IV. Twenty-eight dollars will buy how many boots at \$7 a pair?

V. How many tons of soft coal, at \$4 a ton, can be bought with \$28?

VI. Twenty-eight cents will buy how many ounces of candy at 4 cents an ounce?

FRIDAY — LESSON LX.

I. A milkman who has 28 pints in a can, and leaves a quart at each house, will leave how many quarts?

II. If you put 2 cents in your bank each day, how many days will it take to put 28 cents in the bank?

III. Twenty-eight skates are how many pairs of skates?

IV. With 28 cents how many pounds of steak can you buy at 14 cents a pound?

V. When raisins are 14 cents a pound, how many pounds can you buy with 28 cents?

VI. How many 2-cent stamps can be bought with 28 cents?

VII. Twenty-eight horses are how many spans?

VIII. Twenty-eight people are how many couples?

SIXTEENTH WEEK.**A SECOND.****MONDAY — LESSON LXI.**

- I.* Twenty-eight quarts are how many gallons?
- II.* How many days are there in the month of February?
- III.* If the wind is in the west $\frac{1}{2}$ of the month, how many days have we a west wind during the month of February?
- IV.* If I have 28 cents and pay 14 cents for a slate, what part of my money have I spent?
- V.* In $\frac{1}{2}$ of the month of February how many days are there?
- VI.* Two men pay \$28 for a sidewalk. What part of \$28 does each man pay? _____

TUESDAY — LESSON LXII.

- I.* (a) $\frac{1}{4}$ of 28 = ? (b) $\frac{1}{7}$ of 28 = ? (c) $\frac{1}{2}$ of 28 = ?
- II.* If 7 days in February were stormy, what part of the month was stormy?
- III.* One gallon of oil is what part of 28 quarts?
- IV.* One bushel is what part of 28 pecks?
- V.* A boy having 28 cents gave $\frac{1}{7}$ of it for candy. How much did he pay for the candy?
- VI.* In $\frac{1}{2}$ of this square of 16 inches, how many squares are there?
- VII.* Measure 20 square feet along the side of the room.

THURSDAY — LESSON LXIII.

- I.* How many square faces has this 1-inch cube?
 - II.* What is the size of each face?
 - III.* Take 8 1-inch cubes and make a 2-inch cube.
 - IV.* How many cubes are there in $\frac{1}{8}$ of it?
 - V.* Show me $\frac{1}{8}$ of the 2-inch cube.
 - VI.* How many 1-inch cubes are there in $\frac{1}{4}$ of it?
 - VII.* How long is each edge?
 - VIII.* Why is it called a 2-inch cube?
 - IX.* In 2 2-inch cubes how many cubic inches are there?
 - X.* Two dozen 1-inch cubes will make how many 2-inch cubes?
-

FRIDAY — LESSON LXIV.

- I.* How many cubic inches are there in this glass model?
- II.* How many square inches are there in each face?
- III.* How many square inches are there on the surface of a cubic inch?
- IV.* A square that is 12 inches on each side contains how many square inches?
- V.* A book that is 16 inches on each side contains how many square inches?
- VI.* Take a piece of string 20 feet long. At the end of every foot tie a knot and at the end of every yard tie a blue ribbon. How many feet are there in the string? How many yards?
- VII.* How many square feet are there in 1 square yard?

SEVENTEENTH WEEK.**A SECOND.****MONDAY — LESSON LXV.**

I. How many feet is it around the edge of this square yard on the board?

II. How many inches is it around your slate?

III. Our table is 4 feet long and 2 feet wide. How many square feet are there in it?

IV. Two dimes and 9 cents make how many cents?

V. Five school weeks and 4 days are how many days?

VI. Two dozen eggs and 5 more are how many eggs?

VII. After paying for 3 pounds of steak, at 9 cents a pound, I had 2 cents left. How much money had I at first?

TUESDAY — LESSON LXVI.

$$6 \times 5 = 30$$

$$5 \times 6 = 30$$

I. If I have 11 pairs of gloves and 7 odd ones, how many gloves have I?

II. Twenty-nine bushels of apples and 17 bushels of potatoes make how many bushels in all?

III. If Wilbur had 29 marbles and lost 17, how many would he have left?

IV. Six nickels are how many pennies?

V. At a nickel a spool, how much will 6 spools of thread cost?

VI. There are 6 working-days in 1 week. How many working-days are there in 5 weeks?

THURSDAY — LESSON LXVII.

- I. What number taken 5 times makes 30?
 - II. How many school days are there in 6 weeks?
 - III. In 6 school days of 5 hours each, how many hours are there?
 - IV. Two dozen and a half of eggs are how many eggs?
 - V. If the Sunday paper cost half a dime, how much will 6 Sunday papers cost?
 - VI. If a star has 5 points, how many points have 6 stars?
 - VII. Name the months having 30 days.
 - VIII. If I have 15 2-cent pieces, how many pennies have I?
-

FRIDAY — LESSON LXVIII.

- I. (a) $2 \times 15 = ?$ (b) $15 \times 2 = ?$
- II. Royal is 15 years old and his cousin is twice as old. How old is his cousin?
- III. In 2 half months how many days are there?
- IV. Fifteen quarts are how many pints?
- V. If Robert earns a dime and a nickel every hour, how much will he have earned at the end of 2 hours?
- VI. Mamma paid 15 cents for a box of wafers and twice as much for a peck of apples. What did both cost?
- VII. If 2 boxes of matches sell for a nickel, how many boxes can be bought for 15 nickels?
- VIII. How many eyes have 15 squirrels?

EIGHTEENTH WEEK.**A SECOND.****MONDAY — LESSON LXIX.**

I. (a) $3 \times 10 = ?$ (b) $10 \times 3 = ?$

II. How many pennies are there in a quarter and one nickel?

III. How many pennies are there in 3 dimes?

IV. If I read 3 pages every day, how many pages can I read in 10 days?

V. James has 10 pieces of money, or 30 cents in all. What is each piece?

VI. If a lot measures 10 yards across, how many feet will it measure the same way?

VII. How many sides have 10 triangles?

TUESDAY — LESSON LXX.

I. (a) $30 \div 3 = ?$ (b) $30 \div 10 = ?$

II. Three crabs have how many legs?

III. How many fingers have 3 boys?

IV. How much less does it cost to send 10 letters from Detroit to New York now than it did in 1880?

V. If George can ride 10 miles an hour on his bicycle, how far can he ride from 2 o'clock till 5?

VI. How many dimes are there in 30 cents?

VII. A farmer sells 3 loads of hay for \$30. How much for one load does he get?

THURSDAY — LESSON LXXI.

I. (a) $30 \div 6 = ?$ (b) $30 \div 5 = ?$

II. Thirty cents will buy how many yards of baby ribbon at 3 cents a yard?

III. At 10 cents a pound, how much will a chicken that cost 30 cents weigh?

IV. A farmer has 10 bushels of wheat which he sells for \$10. At the same rate, how many bushels will he sell for \$30?

V. In 30 working-days how many weeks are there?

VI. Thirty school days are how many weeks?

VII. How many nickels are there in 30 cents?

VIII. How many 5-cent pencils can be bought with 30 cents?

FRIDAY — LESSON LXXII.

I. (a) $30 \div 2 = ?$ (b) $30 \div 15 = ?$

II. How many half dozen eggs are in 30 eggs? How much will they cost at 10 cents a half dozen?

III. How many 2-cent stamps can be bought with 30 cents?

IV. How many half-months are there in 30 days?

V. Thirty slippers are how many pairs of slippers?

VI. Thirty pints of syrup will fill how many quart cans?

VII. Thirty boys wear how many pairs of boots?

VIII. $\frac{1}{2}$ of 30 = ?

IX. How many days are there in $\frac{1}{2}$ of November?

NINETEENTH WEEK.**A SECOND.****MONDAY — LESSON LXXIII.**

I. (a) $30 \div 5 = ?$ (b) $30 \div 6 = ?$

II. Fifteen days is what part of the month of September?

III. A farmer had 30 bushels of apples. He sold $\frac{1}{2}$ of them at \$2 a bushel. How much did he get for them?

IV. A pin cost 30 cents, and a box of candy $\frac{1}{2}$ as much. What did the candy cost? What did both cost?

V. A man sold a chain for \$15, which was $\frac{1}{2}$ of its cost. What did it cost?

VI. If I pay 30 cents for a book and $\frac{1}{6}$ as much for a pencil, what will the pencil cost? What will both cost?

VII. Frank pays 5 cents for car fare, which is $\frac{1}{6}$ of his money. How much did he have?

TUESDAY — LESSON LXXIV.

I. (a) $\frac{1}{3}$ of 30 = ? (b) $\frac{1}{10}$ of 30 = ?

II. Fred has 30 apples to divide equally among 6 boys. What part of the apples does each boy receive? How many apples does each receive?

III. How many nickels are there in 30 cents?

IV. A farmer having 30 pounds of wool sells $\frac{1}{2}$ of it. How many pounds has he left?

V. A farmer gave 30 cents to 3 little boys. Each boy received what part of 30 cents?

VI. How many nickels did each boy receive?

THURSDAY — LESSON LXXV.

- I. What is $\frac{1}{3}$ of 30?
 - II. A dime is what part of 30 cents?
 - III. One yard is what part of 30 feet?
 - IV. If 3 feet is $\frac{1}{10}$ of the width of a man's lot, how many feet wide is his lot?
 - V. If George has 30 cents and spends a quarter for car tickets, how much will he have left?
-

FRIDAY — LESSON LXXVI.

REVIEW.

- I. How many animals are there in a field containing 44 horses and 8 cows?
- II. If I have 45 pennies and 2 3-cent pieces, how much money have I in all?
- III. A farmer brought 17 chickens and 16 turkeys to market. How many fowls did he bring in all?
- IV. A boy earned 55 cents cleaning sidewalks. He bought a sponge for 5 cents. How much had he left?
- V. A book cost 45 cents, and a knife 17 cents less. How much did the knife cost?
- VI. John has 3 quarter dollars. How much does he lack of having a dollar?
- VII. When 13 girls of a class of 21 are present, how many are absent?
- VIII. If there are 3 dozen pearl buttons and 2 dozen cloth buttons in a basket, how many buttons are there in the basket?

TWENTIETH WEEK.

A SECOND.

MONDAY — LESSON LXXVII.

I. A boy had 50 cents. He spent a quarter for a kite-string and 13 cents for a top. How much money had he left?

II. A man bought a wagon for \$56. For how much must he sell it to gain \$14?

$$\text{III. } 30 \text{ is } \begin{cases} 15 \times 2 \\ 2 \times 15 \\ 6 \times 5 \\ 5 \times 6 \\ 3 \times 10 \\ 10 \times 3 \end{cases}$$

IV. 27 is 3×9 and 9×3 .

$$\text{V. } 28 \text{ is } \begin{cases} 14 \times 2 \\ 2 \times 14 \\ 7 \times 4 \\ 4 \times 7 \end{cases}$$

TUESDAY — LESSON LXXVIII.

I. $\frac{1}{2}$ of 30 = ?

II. $30 \div 2 = ?$

III. $28 \div 2 = ?$

$\frac{1}{2}$ of 28 = ?

$30 \div 6 = ?$

$28 \div 7 = ?$

$\frac{1}{3}$ of 30 = ?

$30 \div 10 = ?$

$28 \div 14 = ?$

$\frac{1}{3}$ of 27 = ?

$30 \div 5 = ?$

$28 \div 14 = ?$

$\frac{1}{4}$ of 28 = ?

$30 \div 15 = ?$

$27 \div 3 = ?$

$\frac{1}{5}$ of 30 = ?

$30 \div 3 = ?$

$27 \div 9 = ?$

$\frac{1}{6}$ of 30 = ?

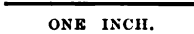
$\frac{1}{10}$ of 30 = ?

$\frac{1}{7}$ of 28 = ?

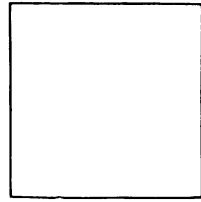
THURSDAY — LESSON LXXIX.

REVIEW.

- I.* Write the names of the months of the year.
- II.* Write the names of the autumn months.
- III.* How many days are there in the autumn months?
- IV.* What always begins with the autumn months?
- V.* How many days have the winter months?
- VI.* What holidays do we keep in the fall?
- VII.* What holidays come in the winter months? On what days of the month do they come?
- VIII.* How many days are there in the shortest month of the year?
- IX.* What holidays are there in the spring months?
- X.* What is the shortest day?
- XI.* What is the longest day?
- XII.* What holiday do we keep in July?
- XIII.* June is the first summer month, and the last month of what, for us?

B THIRD.

12 INCHES = 1 FOOT.
 3 FEET = 1 YARD.
 12 THINGS = 1 DOZEN.



ONE SQUARE INCH.



ONE PINT.

2 PINTS = 1 QUART.
 4 QUARTS = 1 GALLON.

8 QUARTS = 1 PECK.
 4 PECKS = 1 BUSHEL.
 4 QUARTS = $\frac{1}{2}$ PECK.
 2 PECKS = $\frac{1}{2}$ BUSHEL.



ONE QUART.

16 OUNCES = 1 POUND.



365 DAYS = 1 YEAR.
 12 MONTHS = 1 YEAR.



144 SQUARE INCHES = 1 SQUARE FOOT.
 9 SQUARE FEET = 1 SQUARE YARD.



$16\frac{1}{2}$ FEET = 1 ROD.



1728 CUBIC INCHES = 1 CUBIC FOOT.



JULY 4th, INDEPENDENCE DAY.
 MAY 30th, DECORATION DAY.
 FIRST MONDAY IN SEPTEMBER, LABOR DAY.

"Every fact that is learned becomes a key to other facts."

FIRST WEEK.

B THIRD.

MONDAY — LESSON I.

Add—

1.	30	29	28	27	26	25	24	23	22	21
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>

Subtract—

2.	31	31	31	31	31	31	31	31	31	31
	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>

3.	1	2	3	4	5	6	7	8	9	10	11
----	---	---	---	---	---	---	---	---	---	----	----

	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>
--	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

4.	31	31	31	31	31	31	31	31	31	31	31
	<u>10</u>	<u>21</u>	<u>20</u>	<u>11</u>	<u>12</u>	<u>19</u>	<u>13</u>	<u>18</u>	<u>14</u>	<u>17</u>	<u>15</u>

5.	11	20	19	12	18	13	17	14	16	15
----	----	----	----	----	----	----	----	----	----	----

	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>
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WRITTEN WORK.

I. Kathleen had 10 3-leaf clovers. How many leaflets did she have?

II. How many fingers are there on 6 hands?

III. How much postage will it take to mail 15 letters?

IV. A wild rose has 5 petals. How many petals have 6 wild roses?

V. How many quarts of milk, at 5 cents a quart, can be bought with 30 cents?

VI. A postman took 15 letters out of 1 box and twice as many out of another. How many did he take out of both?

TUESDAY — LESSON II.

1. Twenty-two apples and 9 apples are—apples.
2. Sixteen balls and 15 balls are—balls.
3. Nineteen days and 12 days are—days.
4. Eleven oranges and 20 oranges are—oranges.
5. Fourteen lemons and 17 lemons are—lemons.
6. Twenty-four cents and 7 cents are—cents.
7. Thirty-one cookies less 9 cookies are—cookies.
8. Thirty-one figs less 8 figs are—figs.
9. Thirty-one marbles less 25 marbles are—marbles.
10. Twelve boys and—boys are 31 boys.
11. Thirteen ounces and—ounces are 31 ounces.

WRITTEN WORK.

I. Nellie had 5 cents and her father gave her 5 times as many as she had. How many cents had she then?

II. In a schoolroom where there were 30 children belonging, $\frac{1}{5}$ were absent. How many were present?

III. There are 5 school days in a week. How many are there in 6 weeks?

IV. If I put 30 eggs in 6 boxes, how many eggs will be in each box?

V. How many days are there in September?

VI. If a pound of crackers costs 5 cents, how many pounds can be bought with 30 cents?

VII. How many 5-cent lead pencils can I buy with 30 cents?

THURSDAY — LESSON III.

1. $4 \times 6 = ?$	$2 \times \dots = 24$	$24 \div 6 = ?$	$25 \div \dots = 5$
$5 \times 5 = ?$	$9 \times \dots = 27$	$27 \div 3 = ?$	$24 \div \dots = 12$
$3 \times 9 = ?$	$7 \times \dots = 28$	$28 \div 4 = ?$	$28 \div \dots = 4$
$4 \times 7 = ?$	$8 \times \dots = 24$	$24 \div 8 = ?$	$27 \div \dots = 3$
$3 \times 8 = ?$	$5 \times \dots = 25$	$25 \div 5 = ?$	$24 \div \dots = 2$

2. $\frac{1}{5}$ of 25 = ?	$\frac{1}{6}$ of 24 = ?	$\frac{1}{8}$ of 24 = ?	$\frac{1}{7}$ of 28 = ?
$\frac{1}{4}$ of 24 = ?	$\frac{1}{3}$ of 27 = ?	$\frac{1}{4}$ of 28 = ?	$\frac{1}{5}$ of 24 = ?
$\frac{1}{5}$ of 27 = ?	$\frac{1}{6}$ of 18 = ?	$\frac{1}{3}$ of 21 = ?	$\frac{1}{2}$ of 28 = ?

3. How many pints are there in 2 quarts?
4. How many quarts are there in 2 gallons?
5. Four quarts equal how many gallons?

WRITTEN WORK.

- I. Find the cost of $\frac{1}{2}$ dozen eggs at 28 cents a dozen.
- II. There are—days in this month, and—days have passed. How many are left?
- III. Ned had 25 cents and earned $\frac{1}{5}$ as much more. How much had he then?
- IV. Write in words X, XIX, VIII, XXVI, and IV.
- V. How many minutes are there in 2 hours?
- VI. How many quarts are there in 2 gallons of cider?
- VII. James had \$27 and spent $\frac{1}{3}$ of it for a suit of clothes. What did the clothes cost?
- VIII. At \$6 a ton what will 5 tons of coal cost?
- IX. $4 \times 8 = 32$ $8 \times 4 = 32$ $32 = 4 \times ?$ $32 = 8 \times ?$
- X. $32 \div 4 = ?$ $32 \div 8 = ?$ $\frac{1}{4}$ of 32 = ? $\frac{1}{8}$ of 32 = ?

FRIDAY — LESSON IV.

- | | | | |
|---------------------------|------------------------|------------------------|-------------------------|
| 1. 4 is $\frac{1}{2}$ of? | 4 is $\frac{1}{3}$ of? | 3 is $\frac{1}{4}$ of? | 5 is $\frac{1}{4}$ of? |
| 5 is $\frac{1}{2}$ of? | 6 is $\frac{1}{2}$ of? | 4 is $\frac{1}{5}$ of? | 3 is $\frac{1}{5}$ of? |
| 3 is $\frac{1}{3}$ of? | 2 is $\frac{1}{6}$ of? | 5 is $\frac{1}{3}$ of? | 2 is $\frac{1}{7}$ of? |
| 4 is $\frac{1}{4}$ of? | 7 is $\frac{1}{2}$ of? | 6 is $\frac{1}{3}$ of? | 9 is $\frac{1}{2}$ of? |
| 3 is $\frac{1}{2}$ of? | 8 is $\frac{1}{3}$ of? | 7 is $\frac{1}{3}$ of? | 10 is $\frac{1}{3}$ of? |

2. How many quarts are there in 2 pecks?
3. How many pecks are there in 2 bushels?
4. Eight quarts equal how many gallons?
5. One bushel equals how many pecks?

- | | | | |
|---------------------|------------------------|-------------------------|----------------------|
| 6. $5 \times 6 = ?$ | $3 \times \dots = 30$ | 10 is $\frac{1}{2}$ of? | $30 \div \dots = 6$ |
| $4 \times 4 = ?$ | $8 \times \dots = 16$ | 12 is $\frac{1}{2}$ of? | $16 \div \dots = 2$ |
| $9 \times 2 = ?$ | $3 \times \dots = 18$ | 2 is $\frac{1}{10}$ of? | $18 \div \dots = 9$ |
| $4 \times 3 = ?$ | $2 \times \dots = 12$ | 6 is $\frac{1}{4}$ of? | $20 \div \dots = 4$ |
| $5 \times 4 = ?$ | $10 \times \dots = 20$ | 5 is $\frac{1}{5}$ of? | $30 \div \dots = 10$ |

WRITTEN WORK.

I. Write in figures XIV, V, XX, XVII, and III.

II. From Detroit to Lake Erie is 19 miles, and from Detroit to Lake St. Clair is 9 miles. How far is it from Lake St. Clair to Lake Erie?

III. How many gills are there in 2 pints of milk?

IV. How many pints are there in 2 gallons of vinegar?

V. Find the surface of your slate which is — inches long and — inches wide.

Add—

VI.	16	15	24	27	17	15	23	22	13	11
	<u>19</u>	<u>12</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>9</u>	<u>7</u>	<u>9</u>	<u>7</u>	<u>19</u>

Subtract—

VII.	16	18	27	22	27	28	26	24	15	14
	<u>8</u>	<u>9</u>	<u>9</u>	<u>8</u>	<u>8</u>	<u>9</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>8</u>

SECOND WEEK.

B THIRD.

MONDAY — LESSON V.

- | | | | |
|----------------------------|-------------------------|--------------------------|-------------------------|
| 1. $\frac{1}{3}$ of 30 = ? | $\frac{1}{4}$ of 16 = ? | $\frac{1}{4}$ of 12 = ? | $\frac{1}{3}$ of 12 = ? |
| $\frac{1}{12}$ of 24 = ? | $\frac{1}{9}$ of 18 = ? | $\frac{1}{10}$ of 20 = ? | $\frac{1}{2}$ of 16 = ? |
| $\frac{1}{8}$ of 12 = ? | $\frac{1}{6}$ of 30 = ? | $\frac{1}{5}$ of 30 = ? | $\frac{1}{8}$ of 16 = ? |
-
- | | | | |
|--------------------|-------------------|----------------------|-----------------------|
| 2. $30 \div 5 = ?$ | $10 \times 3 = ?$ | $22 \div \dots = 2$ | $5 \times \dots = 30$ |
| $16 \div 4 = ?$ | $3 \times 7 = ?$ | $30 \div \dots = 3$ | $7 \times \dots = 21$ |
| $18 \div 3 = ?$ | $5 \times 3 = ?$ | $15 \div \dots = 3$ | $3 \times \dots = 15$ |
| $12 \div 4 = ?$ | $6 \times 5 = ?$ | $21 \div \dots = 7$ | $3 \times \dots = 30$ |
| $20 \div 2 = ?$ | $4 \times 8 = ?$ | $30 \div \dots = 10$ | $2 \times \dots = 22$ |

3. How many cents are there in a nickel?
4. How many cents are there in 2 nickels?
5. In 1 dime there are how many cents?
6. In 2 dimes there are how many cents?

WRITTEN WORK.

I. Willie picked 24 quarts of berries in a week, and Arthur picked 7 quarts. How many quarts did both boys pick?

II. How many more quarts did Willie pick than Arthur?

III. Mr. Warren had 31 chairs and sold 18. How many chairs had he left?

IV. Fred had 15 baby chickens and 16 old ones. How many had he in all?

V. George is 9 years old and his father is 22 years older. What is the sum of their ages?

TUESDAY — LESSON VI.

Add—

1.	17	16	15	14	13	12	11	10	9	8	7
	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>

Subtract—

2.	34	34	34	34	34	34	34	34	34	34	34
	<u>5</u>	<u>11</u>	<u>16</u>	<u>20</u>	<u>8</u>	<u>12</u>	<u>9</u>	<u>13</u>	<u>17</u>	<u>26</u>	<u>19</u>

Add—

3.	26	32	30	24	22	31	16	25	32	9	6
	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>

4. Eighteen quarts and 16 quarts are — gallons.
5. Thirteen gallons and 21 gallons are — gallons.
6. Twenty-five pecks and 9 pecks are — pecks.
7. Twelve houses and 22 houses are — houses.
8. Twenty-seven papers and 7 papers are — papers.
9. Twenty horses and — horses are 34 horses.
10. Six sheep and — sheep are 34 sheep.
11. Nineteen cars and — cars are 34 cars.

WRITTEN WORK.

I. Which costs more, 8 loaves of bread at 4 cents a loaf, or 6 quarts of beans at 5 cents a quart?

II. How many 2-cent stamps can be bought with 32 cents?

III. Henry left home on the morning of February 1, 1895, and returned in the evening of March 4. How many days was he gone?

IV. A farmer fed 32 quarts of oats to his horse in 8 days. How many quarts did he feed him each day?

V. How many feet have 8 little chickens and 8 little birds?

THURSDAY — LESSON VII.

- | | | | |
|----------------------------|----------------------------|---------------------------|--------------------------|
| 1. $20 \div \dots = 10$ | 2. $10 \times 2 = ?$ | 3. 7 is $\frac{1}{4}$ of? | 4. $6 \times \dots = 18$ |
| $12 \div \dots = 2$ | $8 \times 4 = ?$ | 5 is $\frac{1}{2}$ of? | $5 \times \dots = 30$ |
| $18 \div \dots = 9$ | $11 \times 3 = ?$ | 9 is $\frac{1}{3}$ of? | $4 \times \dots = 24$ |
| $16 \div \dots = 4$ | $2 \times 10 = ?$ | 8 is $\frac{1}{2}$ of? | $2 \times \dots = 22$ |
| $20 \div \dots = 10$ | $6 \times 5 = ?$ | 4 is $\frac{1}{6}$ of? | $8 \times \dots = 32$ |
| 5. $\frac{1}{6}$ of 30 = ? | $\frac{1}{2}$ of 22 = ? | $\frac{1}{10}$ of 30 = ? | $\frac{1}{11}$ of 22 = ? |
| $\frac{1}{7}$ of 21 = ? | $\frac{1}{3}$ of 15 = ? | $\frac{1}{3}$ of 21 = ? | $\frac{1}{5}$ of 30 = ? |
| $\frac{1}{5}$ of 15 = ? | $\frac{1}{3}$ of 30 = ? | $\frac{1}{4}$ of 32 = ? | $\frac{1}{8}$ of 32 = ? |
| 6. $11 \times \dots = 33$ | 7. 10 is $\frac{1}{3}$ of? | 8. $30 \div 5 = ?$ | 9. $3 \times 11 = ?$ |
| $8 \times \dots = 32$ | 4 is $\frac{1}{8}$ of? | $32 \div 4 = ?$ | $5 \times 6 = ?$ |
| $6 \times \dots = 24$ | 11 is $\frac{1}{2}$ of? | $27 \div 3 = ?$ | $4 \times 8 = ?$ |
| $5 \times \dots = 30$ | 8 is $\frac{1}{4}$ of? | $20 \div 4 = ?$ | $3 \times 9 = ?$ |
| $3 \times \dots = 30$ | 3 is $\frac{1}{10}$ of? | $30 \div 3 = ?$ | $4 \times 5 = ?$ |

10. Find how many quarts there are in 2 gallons.

WRITTEN WORK.

I. Philip has 11 cents. How much more than this will he have to pay for a top worth 31 cents?

II. Jennie put 20 eggs in one box, and enough in another to make 31 in all. How many did she put in the second box?

III. Harry had 21 marbles and his brother had 10. How many had both boys?

IV. Alice's mother had a party to which she invited 31 persons. If only 25 of them came, how many did not come?

V. A barrel contained 31 quarts of oil. If 7 quarts leaked out, how many were left in the barrel?

FRIDAY — LESSON VIII.

1. Eight kittens and — kittens are 34 kittens.
2. Thirty-four boxes less 26 boxes are — boxes.
3. Thirty-four melons less 3 melons are — melons.
4. Thirty-four hens less 14 hens are — hens.
5. Thirty-four books less 24 books are — books.
6. $\begin{array}{r} 5 \\ 34 \end{array}$ $\begin{array}{r} 29 \\ 34 \end{array}$ $\begin{array}{r} 23 \\ 34 \end{array}$ $\begin{array}{r} 10 \\ 34 \end{array}$ $\begin{array}{r} 4 \\ 34 \end{array}$ $\begin{array}{r} 22 \\ 34 \end{array}$ $\begin{array}{r} 25 \\ 34 \end{array}$ $\begin{array}{r} 20 \\ 34 \end{array}$ $\begin{array}{r} 2 \\ 34 \end{array}$ $\begin{array}{r} 28 \\ 34 \end{array}$
7. $3 \times 11 = 33$ $11 \times 3 = 33$ $33 = 3 \times \dots ?$ $33 = 11 \times \dots ?$
 $\frac{1}{3}$ of 33 = ? $\frac{1}{11}$ of 33 = ? $33 \div 11 = ?$ $33 \div 3 = ?$
8. $\frac{1}{11}$ of 33 = ? $\frac{1}{6}$ of 30 = ? $\frac{1}{7}$ of 28 = ? $\frac{1}{8}$ of 33 = ?
 $\frac{1}{2}$ of 24 = ? $\frac{1}{10}$ of 30 = ? $\frac{1}{4}$ of 32 = ? $\frac{1}{6}$ of 24 = ?
 $\frac{1}{5}$ of 30 = ? $\frac{1}{3}$ of 21 = ? $\frac{1}{5}$ of 20 = ? $\frac{1}{4}$ of 24 = ?

WRITTEN WORK.

I. At 2 cents an ounce, what must I pay for 1 pound of coffee?

II. At 8 cents a quart, what will I pay for 4 quarts of gasoline?

III. At 4 cents a quart, what will I pay for 2 gallons of oil?

IV. Jennie paid 6 cents for her doll. Susie paid 12 cents for hers, and Mamie 14 cents for hers. How much did the three dolls cost?

V. If 8 chairs have 32 legs, how many legs has 1 chair?

VI. How many pints are there in 4 gallons?

THIRD WEEK.

B THIRD.

MONDAY — LESSON IX.

1. How many inches are there in 1 foot?
2. How many ounces are there in 1 pound of sugar?
3. One foot equals how many inches?
4. One pound of sugar equals how many ounces of sugar?
5. $8 \times 4 = ?$ 6. $33 \div 3 = ?$ 7. 11 is $\frac{1}{3}$ of...? 8. $4 \times \dots = 32?$
- 6 $\times 5 = ?$ $32 \div 8 = ?$ 6 is $\frac{1}{2}$ of...? $5 \times \dots = 30?$
- $3 \times 10 = ?$ $27 \div 3 = ?$ 2 is $\frac{1}{12}$ of...? $10 \times \dots = 30?$
- $11 \times 3 = ?$ $30 \div 10 = ?$ 3 is $\frac{1}{11}$ of...? $3 \times \dots = 33?$
- $10 \times 2 = ?$ $28 \div 4 = ?$ 4 is $\frac{1}{4}$ of...? $2 \times \dots = 20?$

WRITTEN WORK.

I. Jennie's father gave her 3 cents a day for 11 days. How much money did he give her?

II. John had 33 cents and spent $\frac{1}{3}$ of it for a ball. How much had he left?

III. If Willie walks 11 blocks a day for 3 days, how many blocks will he walk in all?

IV. How many feet are there in 11 yards? How many sides have 11 triangles?

V. If I divide 33 apples equally among Clara, May and Arthur, how many will I give each?

VI. John had 33 marbles and gave $\frac{1}{11}$ of them to his brother. How many had he left?

VII. How many feet in $\frac{1}{3}$ of 33 feet? How many feet in $\frac{1}{11}$ of 33 feet?

TUESDAY — LESSON X.

Add—

1. 25	27	26	28	11	12	8	6	12	25
<u>5</u>	<u>3</u>	<u>4</u>	<u>2</u>	<u>12</u>	<u>18</u>	<u>22</u>	<u>24</u>	<u>9</u>	<u>8</u>

Multiply—

2. 11	10	8	4	7	6	8	9	5	4
<u>3</u>	<u>3</u>	<u>3</u>	<u>8</u>	<u>4</u>	<u>5</u>	<u>4</u>	<u>3</u>	<u>6</u>	<u>4</u>

3. $5 \times 7 = 35$	$11 \times 3 = ?$	$4 \times 6 = ?$	$5 \times 5 = ?$
$7 \times 5 = 35$	$7 \times 4 = ?$		

4. One yard equals how many feet?
5. One dime equals how many nickels?
6. Two dimes equal how many nickels?
7. How many square inches are there in 1 square foot?
8. Two nickels equal how many dimes?
9. Four nickels equal how many dimes?

WRITTEN WORK.

$35 \div 5 = ? \quad 35 \div 7 = ? \quad \frac{1}{5} \text{ of } 35 = ? \quad \frac{1}{7} \text{ of } 35 = ?$

I. What will Emma pay for 5 dolls at 7 cents each?

II. James bought a pair of skates for 35 cents, and paid 7 cents a day for them until they were paid for. How many days did it take him?

III. Minnie had 35 cents and spent $\frac{1}{5}$ of it for spelling slips. How much money did she spend?

IV. How much money had she left?

V. Julia paid 7 cents for a paper of needles, and 5 times as much for thread. How much did both cost?

VI. How much more did she spend for thread than for needles?


THURSDAY — LESSON XI.

1. $7 \times 5 = ?$ 2. $36 \div 6 = ?$ 3. 12 is $\frac{1}{3}$ of? 4. $5 \times \dots = 35$
 $6 \times 6 = ?$ $30 \div 5 = ?$ 9 is $\frac{1}{4}$ of? $4 \times \dots = 36$
 $9 \times 3 = ?$ $35 \div 7 = ?$ 3 is $\frac{1}{8}$ of? $3 \times \dots = 36$
 $12 \times 3 = ?$ $36 \div 4 = ?$ 4 is $\frac{1}{7}$ of? $5 \times \dots = 30$
 $9 \times 4 = ?$ $32 \div 8 = ?$ 6 is $\frac{1}{8}$ of? $7 \times \dots = 28$
 $\frac{1}{4}$ of 36 =? $\frac{1}{5}$ of 35 is? $\frac{1}{6}$ of 36 =? $\frac{1}{7}$ of 35 =?
 $\frac{1}{8}$ of 32 =? 4 is $\frac{1}{3}$ of? 5 is $\frac{1}{7}$ of? 9 is $\frac{1}{3}$ of?
12 is $\frac{1}{3}$ of? 6 is $\frac{1}{8}$ of? 6 is $\frac{1}{4}$ of? 3 is $\frac{1}{10}$ of?
5. $\begin{array}{ccccccccc} 12 & 8 & 4 & 9 & 7 & 10 & 11 & 6 & 3 & 4 \\ \times 3 & \times 4 & \times 9 & \times 3 & \times 5 & \times 3 & \times 3 & \times 6 & \times 12 & \times 7 \end{array}$
6. $\begin{array}{ccccccccc} 36 & 30 & 28 & 35 & 36 & 27 & 33 & 36 & 32 & 36 \\ -18 & -15 & -14 & -17 & -17 & -15 & -14 & -19 & -13 & -27 \end{array}$
7. How many feet are there in 1 yard of cloth?

WRITTEN WORK.

I. Jessie picked 9 4-leaf clovers on Monday. How many leaflets were on them?

II. If kerosene oil costs 3 cents a quart, what will $8\frac{1}{2}$ gallons cost?

III. If you had 36 splints, how many houses like this  could you make?

IV. I had 3 dozen eggs and gave away $\frac{1}{3}$ of them. How many eggs had I left?

V. How many inches are there in 1 yard of tape?

VI. Alice had 36 cents and gave $\frac{1}{4}$ of it to Willie. How much did she give him?

VII. How many pennies are there in 7 nickels? How many days are there in 5 weeks?

FRIDAY—LESSON XII.

1. Write in Roman notation

6, 8, 9, 12, 15.

2. $\frac{18}{36}$ $\frac{15}{36}$ $\frac{14}{28}$ $\frac{18}{35}$ $\frac{19}{36}$ $\frac{12}{27}$ $\frac{19}{33}$ $\frac{17}{36}$ $\frac{19}{32}$ $\frac{19}{36}$ $\frac{21}{36}$

3. What is $\frac{1}{4}$ of 4 quarts of oil?4. What is $\frac{1}{2}$ of 2 quarts of molasses?5. What is $\frac{1}{5}$ of 5 quarts of milk?6. What is $\frac{1}{2}$ of 22 quarts of corn?7. What is $\frac{1}{4}$ of 32 quarts of nuts?8. What is $\frac{1}{7}$ of 21 quarts of seed?9. What is $\frac{1}{8}$ of 16 quarts of barley?10. $36 = 4 \times 9$, 9×4 , 6×6 , 3×12 , 12×3 .

WRITTEN WORK.

$$36 \div 9 = ? \quad 36 \div 4 = ?$$

I. I bought 9 gallons of vinegar. How many quarts did I buy?

II. What will 6 tons of coal cost at \$6 a ton?

III. How many feet are there in 12 yards of ribbon?

IV. How many legs have 6 flies?

V. If I make 12 triangles, how many sides will they have?

VI. If I divide 36 oranges equally among 9 children, how many oranges will I give each one?

VII. If my overcoat cost \$36 and my shoes $\frac{1}{6}$ as much, what is the cost of my shoes?

FOURTH WEEK.

B THIRD.

MONDAY — LESSON XIII.

1. $\begin{array}{cccccccccccc} 37 & 37 & 37 & 37 & 37 & 37 & 37 & 37 & 37 & 37 & 37 \\ -15 & -14 & -13 & -12 & -11 & -10 & -9 & -8 & -7 & -6 & -5 \end{array}$
2. $\begin{array}{cccccccccccc} 36 & 35 & 31 & 29 & 33 & 28 & 20 & 19 & 21 & 17 & 12 \\ +1 & +2 & +6 & +8 & +4 & +9 & +17 & +18 & +16 & +20 & +25 \end{array}$
3. $\begin{array}{cccccccccccc} 2 & 5 & 9 & 11 & 13 & 6 & 21 & 15 & 26 & 14 & 22 \\ +.. & +.. & +.. & +.. & +.. & +.. & +.. & +.. & +.. & +.. & +.. \\ \hline 37 & 37 & 37 & 37 & 37 & 37 & 37 & 37 & 37 & 37 & 37 \end{array}$
4. $\begin{array}{cccccccccccc} 37 & 37 & 37 & 37 & 37 & 37 & 37 & 37 & 37 & 37 & 37 \\ -.. & -.. & -.. & -.. & -.. & -.. & -.. & -.. & -.. & -.. & -.. \\ \hline 15 & 14 & 13 & 12 & 11 & 10 & 9 & 7 & 6 & 5 & 4 \end{array}$

5. Thirty-seven dolls less — dolls are 22 dolls.
6. Thirty-seven pencils less — pencils are 17 pencils.
7. Thirty-seven pins less — pins are 27 pins.
8. Thirty-seven cups less — cups are 11 cups.

WRITTEN WORK.

- I. How many gallons of cider are there in 12 quarts?
- II. How many quarts of cider are there in 2 gallons?
- III. Find the surface of 1 side of the cover of your reader, if it is — inches long and — inches wide.
- IV. How many letters can I post with 30 cents?
- V. Clara picked 9 quarts of berries, Eva picked 8 quarts, and Jennie 7 quarts. How many quarts did they all pick?
- VI. Chicago has 68 aldermen. If there are 2 aldermen in each ward, how many wards are there in Chicago?
- VII. $\begin{array}{cccccccccc} 37 & 40 & 675 & 378 & 67 & 54 & 25 & 37 & 65 \\ -18 & -21 & -214 & -156 & -18 & -17 & -8 & -15 & -37 \end{array}$

TUESDAY — LESSON XIV.

1. Thirty-seven stars less — stars are 9 stars.
2. Twenty-seven vases and — vases are 37 vases.
3. Nineteen stems and — stems are 37 stems.
4. Eight plates and — plates are 37 plates.
5. Fifteen nails and — nails are 37 nails.
6. Six tables and — tables are 37 tables.
7. Twenty-five buttons and 12 buttons are — buttons.
8. Ten berries and 27 berries are — berries.
9. Twenty-nine shells and 8 shells are — shells.
10. Fourteen keys and 13 keys are — keys.

WRITTEN WORK.

I. There are 16 wards in Detroit, and 2 aldermen in each ward. How many aldermen are there in Detroit?

II. Write in Roman numbers 3, 10, 14, 20 and 17.

III. How many moments are there in $\frac{1}{2}$ of 30 minutes?

IV. What part of a dollar is 25 cents?

V. How many feet have 5 horses and 6 cows?

VI. How many quarts of tomatoes are there in a peck?
How many quarts of bran are there in 2 pecks?

VII. Marion had 30 cents and gave her sister $\frac{1}{2}$ of them.
How many cents had she left?

VIII. 33 25 24 29 16 15 14 17 45 13
 $\times 4$ $\times 3$ $\times 2$ $\times 3$ $\times 5$ $\times 5$ $\times 6$ $\times 4$ $\times 6$ $\times 7$

IX. 57 29 36 26 24 16 17 27 29 14
 +13 +18 +14 +19 +13 +18 +16 +13 +23 +37

THURSDAY — LESSON XV.

1.	20	18	17	21	16	22	15	23	14
	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$
	24	13	25	12	19	11	9	10	8
	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$	$\begin{array}{r} +.. \\ \hline 38 \end{array}$
2.	29	9	28	10	27	11	26	8	30
	$\begin{array}{r} +9 \\ \hline \end{array}$	$\begin{array}{r} +29 \\ \hline \end{array}$	$\begin{array}{r} +10 \\ \hline \end{array}$	$\begin{array}{r} +28 \\ \hline \end{array}$	$\begin{array}{r} +11 \\ \hline \end{array}$	$\begin{array}{r} +27 \\ \hline \end{array}$	$\begin{array}{r} +12 \\ \hline \end{array}$	$\begin{array}{r} +30 \\ \hline \end{array}$	$\begin{array}{r} +8 \\ \hline \end{array}$
	7	31	6	32	25	24	23	21	22
	$\begin{array}{r} +31 \\ \hline \end{array}$	$\begin{array}{r} +7 \\ \hline \end{array}$	$\begin{array}{r} +32 \\ \hline \end{array}$	$\begin{array}{r} +6 \\ \hline \end{array}$	$\begin{array}{r} +13 \\ \hline \end{array}$	$\begin{array}{r} +14 \\ \hline \end{array}$	$\begin{array}{r} +15 \\ \hline \end{array}$	$\begin{array}{r} +17 \\ \hline \end{array}$	$\begin{array}{r} +16 \\ \hline \end{array}$
3.	38	38	38	38	38	38	38	38	38
	$\begin{array}{r} -20 \\ \hline \end{array}$	$\begin{array}{r} -18 \\ \hline \end{array}$	$\begin{array}{r} -17 \\ \hline \end{array}$	$\begin{array}{r} -21 \\ \hline \end{array}$	$\begin{array}{r} -16 \\ \hline \end{array}$	$\begin{array}{r} -22 \\ \hline \end{array}$	$\begin{array}{r} -15 \\ \hline \end{array}$	$\begin{array}{r} -23 \\ \hline \end{array}$	$\begin{array}{r} -14 \\ \hline \end{array}$
	38	38	38	38	38	38	38	38	38
	$\begin{array}{r} -24 \\ \hline \end{array}$	$\begin{array}{r} -13 \\ \hline \end{array}$	$\begin{array}{r} -25 \\ \hline \end{array}$	$\begin{array}{r} -12 \\ \hline \end{array}$	$\begin{array}{r} -7 \\ \hline \end{array}$	$\begin{array}{r} -8 \\ \hline \end{array}$	$\begin{array}{r} -9 \\ \hline \end{array}$	$\begin{array}{r} -10 \\ \hline \end{array}$	$\begin{array}{r} -19 \\ \hline \end{array}$
4.	56	49	50	67	42	53	78	41	50
	$\begin{array}{r} -37 \\ \hline \end{array}$	$\begin{array}{r} -45 \\ \hline \end{array}$	$\begin{array}{r} -2 \\ \hline \end{array}$	$\begin{array}{r} -54 \\ \hline \end{array}$	$\begin{array}{r} -13 \\ \hline \end{array}$	$\begin{array}{r} -19 \\ \hline \end{array}$	$\begin{array}{r} -39 \\ \hline \end{array}$	$\begin{array}{r} -16 \\ \hline \end{array}$	$\begin{array}{r} -29 \\ \hline \end{array}$

WRITTEN WORK.

- I. Sixteen chairs and — chairs are 38 chairs.
- II. Thirty clocks and — clocks are 38 clocks.
- III. Twenty-four slates and — slates are 38 slates.
- IV. Twelve maps and — maps are 38 maps.
- V. How many stars has our flag now?
- VI. When coal is \$6 a ton, what will 13 tons cost?
- VII. There are 88 counties in Ohio, and this is 57 more than there are in Oregon. How many are there in Oregon?
- VIII. How many wax candles, at 10 cents each, can be bought with 30 cents?

FRIDAY — LESSON XVI.

1. Nine shoes and — shoes are 38 shoes.
 2. Thirty-eight tins less 22 tins are — tins.
 3. Thirty-eight bells less 13 bells are — bells.
 4. Thirty-eight thimbles less 4 thimbles are — thimbles.
 5. Thirty-eight shells less 15 shells are — shells.
 6. Thirty-eight sponges less 19 sponges are — sponges.
 7. Fourteen stories and 24 stories are — stories.
 8. Eight letters and 30 letters are — letters.
 9. Eleven beans and 27 beans are — beans.
 10. Seventeen peas and 21 peas are — peas.
 11. Twenty-three pears and 15 pears are — pears.
-

WRITTEN WORK.

I. Write in Roman numbers 26, 19, 7, 22, 12.

II. How many days are there in April? How many cents are there in $\frac{1}{2}$ of a dollar?

III. Charlie bought a picture book for 5 cents, and a knife for 5 times as much. How much did the knife cost?

IV. When Michigan was admitted as a state in 1837, it added the 26th star to our flag; when Utah was admitted in 1896 the 45th star was added. How many stars have been added since Michigan was made a state?

V. Jennie paid 5 cents for a paper of pins, 10 cents for a paper of needles, and 4 cents each for 2 spools of thread. How much did she pay for all?

VI. How many quarts are there in 2 gallons of milk? How many pints are there in 6 quarts of milk?

FIFTH WEEK.

B THIRD.

MONDAY—LESSON XVII.

Add—

1.	19	18	35	29	12	31	15	22	13	28	14	23
	<u>20</u>	<u>21</u>	<u>4</u>	<u>10</u>	<u>27</u>	<u>8</u>	<u>24</u>	<u>17</u>	<u>26</u>	<u>11</u>	<u>25</u>	<u>16</u>

Subtract—

2.	39	39	39	39	39	39	39	39	39	39	39	39
	<u>23</u>	<u>14</u>	<u>18</u>	<u>19</u>	<u>13</u>	<u>7</u>	<u>11</u>	<u>22</u>	<u>12</u>	<u>26</u>	<u>10</u>	<u>15</u>

3.	1	2	3	4	5	6	7	8	9	10
	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>
	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>
	11	12	13	14	15	16	17	18	19	20
	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>	<u>+..</u>
	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>

4.	39	39	39	39	39	39	39	39	39	39	39	39
	-24	-16	-20	-9	-8	-21	-25	-6	-17	-5		
	39	39	39	39	39	39	39	39	39	39	39	39
	-23	-27	-31	-33	-30	-32	-10	-7	-3	-4		

WRITTEN WORK.

I. When potatoes are 25 cents a peck, what will 1 bushel cost?

II. Write in figures seven, fourteen, fifteen, twenty-nine and forty.

III. If 2 knives cost 36 cents, what will 1 knife cost?

IV. When oysters are 30 cents a can, what will 2 cans cost?

V. The first boat on the Great Lakes was the Griffin, built in 1679. How many years was this before the "Pride of the West," the Northland, sailed in 1894?

VI. Find the cost of 3 dozen lead pencils at 3 cents each.

TUESDAY — LESSON XVIII.

1. What is $\frac{1}{2}$ of 10 pecks of corn?
2. What is $\frac{1}{4}$ of 12 times 3 books?
3. What is $\frac{1}{8}$ of 4 gallons of oil?
4. What is $\frac{1}{2}$ of 28 boxes of gingersnaps?
5. What is $\frac{1}{3}$ of 15 feet of rope?
6. Write in Roman notation 17, 24, 5, 27 and 10.
7. Twenty-three books and 16 books are — books.
8. Fourteen models and 25 models are — models.
9. Ten papers and 29 papers are — papers.
10. Thirty-three cakes and 6 cakes are — cakes.
11. Twenty bricks and 19 bricks are — bricks.
12. Thirty slates and 9 slates are — slates.
13. $40 = 4 \times 10$, 10×4 , 5×8 , 8×5 . $40 \div 4 = ?$ $40 \div 10 = ?$
 $40 \div 5 = ?$ $40 \div 8 = ?$ $40 \div 2 = ?$ $40 \div 20 = ?$
 $\frac{1}{4}$ of 40 = ? $\frac{1}{5}$ of 40 = ? $\frac{1}{8}$ of 40 = ? $\frac{1}{10}$ of 40 = ?

WRITTEN WORK.

I. If an orange can be cut in 6 equal parts, what is each part called?

II. Find the surface of a slate 12 inches long and 9 inches wide?

III. How many pounds of sugar, at 5 cents a pound, can be bought with 40 cents?

IV. How many days are there in $\frac{1}{3}$ of April.

V. Detroit River is 28 miles long. If a boat sails over $\frac{1}{4}$ of the length, how many miles does it sail?

VI. Lincoln was chosen President the first time in 1861. How long ago was that?

P in A.—6.

THURSDAY — LESSON XIX.

1. $\frac{1}{8}$ of 32 quarts of cider is — quarts of cider.
2. $\frac{1}{7}$ of 35 quarts of cream is — quarts of cream.
3. $\frac{1}{8}$ of 30 quarts of sirup is — quarts of sirup.
4. $\frac{1}{5}$ of 25 quarts of wine is — quarts of wine.
5. $\frac{1}{4}$ of 24 quarts of vinegar is — quarts of vinegar.
6. $5 \times 7 = ?$ 7. $40 \div 10 = ?$ 8. 8 is $\frac{1}{6}$ of? 9. $7 \times ? = 35$
 $8 \times 5 = ?$ $36 \div 9 = ?$ 7 is $\frac{1}{8}$ of? $5 \times ? = 40$
 $4 \times 9 = ?$ $40 \div 5 = ?$ 5 is $\frac{1}{7}$ of? $6 \times ? = 36$
 $10 \times 4 = ?$ $30 \div 10 = ?$ 4 is $\frac{1}{10}$ of? $8 \times ? = 40$
 $7 \times 5 = ?$ $40 \div 8 = ?$ 3 is $\frac{1}{12}$ of? $4 \times ? = 40$
10. Write in Roman notation 16, 7, 20, 11, 14.
11. $42 = 7 \times 6$ $6 \times 7 = 42$ $42 \div 6 = ?$ $42 \div 7 = ?$
 $\frac{1}{7}$ of 42 = ? $\frac{1}{6}$ of 42 = ? $6 \times ? = 42$ $7 \times ? = 42$

WRITTEN WORK.

I. How many minutes are there in $\frac{1}{5}$ of 40 minutes?
 How many cents are there in $\frac{1}{4}$ of a dollar?

II. How many feet is it around a flower bed that is 10 feet long and 4 feet wide?

III. Abraham Lincoln was assassinated in 1865. How many years ago last April was that?

IV. One day 35 soldiers marched, and on another 75 soldiers marched. How many marched on both days?

V. In one box there are 42 marbles, and in another there are 5 times as many. How many are there in the second box?

VI. Write in Roman numbers 21, 9, 13, 25, and 30.

VII. In 1780 the first glass factory in the United States was built. How many years ago was that?

FRIDAY—LESSON XX.

1. $\begin{array}{r} 19 \\ + \dots \\ \hline 40 \end{array}$ $\begin{array}{r} 21 \\ + \dots \\ \hline 40 \end{array}$ $\begin{array}{r} 17 \\ + \dots \\ \hline 40 \end{array}$ $\begin{array}{r} 16 \\ + \dots \\ \hline 40 \end{array}$ $\begin{array}{r} 15 \\ + \dots \\ \hline 40 \end{array}$ $\begin{array}{r} 14 \\ + \dots \\ \hline 40 \end{array}$ $\begin{array}{r} 13 \\ + \dots \\ \hline 40 \end{array}$ $\begin{array}{r} 23 \\ + \dots \\ \hline 40 \end{array}$ $\begin{array}{r} 18 \\ + \dots \\ \hline 40 \end{array}$ $\begin{array}{r} 20 \\ + \dots \\ \hline 40 \end{array}$ $\begin{array}{r} 24 \\ + \dots \\ \hline 40 \end{array}$
2. $\begin{array}{r} 36 \\ - 29 \\ \hline \end{array}$ $\begin{array}{r} 40 \\ - 22 \\ \hline \end{array}$ $\begin{array}{r} 36 \\ - 21 \\ \hline \end{array}$ $\begin{array}{r} 40 \\ - 15 \\ \hline \end{array}$ $\begin{array}{r} 36 \\ - 24 \\ \hline \end{array}$ $\begin{array}{r} 40 \\ - 27 \\ \hline \end{array}$ $\begin{array}{r} 36 \\ - 23 \\ \hline \end{array}$ $\begin{array}{r} 40 \\ - 28 \\ \hline \end{array}$ $\begin{array}{r} 36 \\ - 26 \\ \hline \end{array}$ $\begin{array}{r} 40 \\ - 17 \\ \hline \end{array}$ $\begin{array}{r} 36 \\ - 25 \\ \hline \end{array}$
3. $\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$ $\begin{array}{r} 12 \\ \times 3 \\ \hline \end{array}$ $\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$ $\begin{array}{r} 5 \\ \times 8 \\ \hline \end{array}$ $\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ \times 10 \\ \hline \end{array}$ $\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ \times 12 \\ \hline \end{array}$ $\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$
4. What is $\frac{1}{4}$ of 2 quarts of ice cream?
 What is $\frac{1}{2}$ of 24 quarts of kerosene?
 What is $\frac{1}{3}$ of 15 quarts of molasses?
 What is $\frac{1}{6}$ of 12 quarts of clover seed?
 What is $\frac{1}{3}$ of 33 quarts of milk?

WRITTEN WORK.

I. Mr. Shaw had 40 dozen eggs and sold $\frac{1}{4}$ of them. How many dozen had he left?

II. Clara's mamma made 40 loaves of bread out of 4 sacks of flour. How many loaves could she make out of 1 sack?

III. Emma's mamma paid 40 cents for a pail and $\frac{1}{2}$ as much for a towel. What did both cost?

IV. How many towels, at 8 cents apiece, can be bought with 40 cents?

V. A grocer had 40 pounds of loaf sugar, and sold $\frac{1}{3}$ of it. How many pounds had he left?

VI. At 8 cents a pound, how much did he get for what he sold?

VII. Christopher Columbus was born in 1435, and discovered America in 1492. How old was he then?

VIII. What will a farmer pay for 10 sheep at \$4 apiece?

SIXTH WEEK.

B THIRD.

MONDAY — LESSON XXI.

1.	41	41	41	41	41	41	41	41	41	41	41
	-21	-34	-3	-14	-25	-8	-24	-19	-32	-9	-4
2.	39	21	5	31	29	3	26	13	12	30	25
	+2	+20	+36	+10	+12	+38	+15	+28	+29	+11	+16
3.	27	12	35	9	33	10	19	17	14	6	29
	+..	+..	+..	+..	+..	+..	+..	+..	+..	+..	+..
	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>
	13	31	2	22	32	15	7	25	3	11	28
	+..	+..	+..	+..	+..	+..	+..	+..	+..	+..	+..
	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>

4. Thirty-one tops and — tops are 41 tops.
5. Twenty-eight balls and — balls are 41 balls.
6. Twelve gardens and — gardens are 41 gardens.
7. Twenty-three sponges and — sponges are 41 sponges.

WRITTEN WORK.

I. Lillie spent 7 cents for thread, 15 cents for cloth, and 9 cents for oranges. How much did she spend for all?

II. Cherries are 40 cents a half-peck. How much will a quart cost?

III. How many pennies are there in 8 nickels?

IV. What is the cost of 4 lead pencils at 5 cents each, and 2 books at 10 cents each?

V. A milkman had 40 quarts of cream and sold $\frac{1}{10}$ of it. How many quarts had he left?

VI. The telescope was invented in 1610. How long ago was that?

TUESDAY — LESSON XXII.

1. Nineteen bells and — bells are 41 bells.
2. Five bananas and — bananas are 41 bananas.
3. Sixteen shells and — shells are 41 shells.
4. Twenty frames and — frames are 41 frames.
5. Write in Roman notation 21, 11, 35, 18, 30.
6. Forty-one slates less 9 slates are — slates.
7. Forty-one arms less 8 arms are — arms.
8. Forty-one ears less 7 ears are — ears.
9. Forty-one boats less 11 boats are — boats.
10. $4 \times 11 = 44$ $11 \times 4 = 44$ $\frac{1}{4}$ of 44 = ?
 $44 \div 4 = ?$ $44 \div 11 = ?$ $\frac{1}{11}$ of 44 = ?

WRITTEN WORK.

I. Seven flies have 42 legs. How many legs have $\frac{1}{7}$ of 42 flies?

II. How many eggs are there in $3\frac{1}{2}$ dozen eggs?

III. Find the surface of a flower bed 7 feet long and 6 feet wide.

IV. There are 42 gallons of kerosene oil in a barrel. If $\frac{1}{3}$ of it leaks out, how many quarts will remain in the barrel?

V. Harry paid \$6 for a hat and 7 times as much for a suit of clothes and an overcoat. How much did the clothes and overcoat cost?

VI. How many rods are there in a lot that is 6 rods wide and 7 rods deep?

VII. How many pecks are there in $\frac{1}{4}$ of a bushel of oats?

THURSDAY — LESSON XXIII.

- | | | |
|----------------------------|---------------------|--------------------|
| 1. $\frac{1}{8}$ of 42 = ? | 2. $6 \times 7 = ?$ | 3. $42 \div 6 = ?$ |
| $\frac{1}{4}$ of 44 = ? | $4 \times 11 = ?$ | $44 \div 11 = ?$ |
| $\frac{1}{7}$ of 42 = ? | $8 \times 5 = ?$ | $40 \div 5 = ?$ |
| $\frac{1}{11}$ of 44 = ? | $7 \times 6 = ?$ | $42 \div 7 = ?$ |
| $\frac{1}{10}$ of 40 = ? | $11 \times 4 = ?$ | $44 \div 4 = ?$ |
-
- | | |
|----------------------------|--------------------|
| 4. 6 is $\frac{1}{7}$ of ? | 5. $44 \div ? = 4$ |
| 11 is $\frac{1}{4}$ of ? | $42 \div ? = 6$ |
| 7 is $\frac{1}{8}$ of ? | $40 \div ? = 10$ |
| 4 is $\frac{1}{11}$ of ? | $44 \div ? = 11$ |
| 8 is $\frac{1}{5}$ of ? | $42 \div ? = 7$ |

6. Forty-one mills less 12 mills are — mills.
7. Forty-one organs less 13 organs are — organs.
8. Forty-one music boxes less 10 music boxes are — music boxes.

WRITTEN WORK.

I. In our flag there are 45 stars. How many stars are there in a flag that has $\frac{1}{3}$ as many stars?

II. A blacksmith shod 11 horses, putting 4 shoes on each horse. How many shoes did he put on all the horses?

III. How many legs have 5 cats and 6 dogs?

IV. What will be the cost of 11 balls at 4 cents apiece, and 6 books at 7 cents apiece?

V. How many quarts are there in 11 gallons?

VI. How many days are there in 6 weeks?

VII. A basket of Delaware grapes weighs 24 pounds. What do 6 such baskets weigh?

VIII. When all the pupils in this room are in position for attention, how many hands are folded?

FRIDAY — LESSON XXIV.

1. How many 4's are there in 40?
2. How many 4's are there in 44?
3. How many 6's are there in 42?
4. How many 11's are there in 44?
5. How many 7's are there in 42?
6. Find $\frac{1}{3}$ of 42 apples.
7. Find $\frac{1}{11}$ of 44 pins.
8. Find $\frac{1}{3}$ of 40 pails.
9. Find $\frac{1}{7}$ of 42 quarts.
10. Find $\frac{1}{4}$ of 44 spools.
11. $45 = 5 \times 9$, 9×5 $45 = 5 \times ?$ $45 = 9 \times ?$
 $\frac{1}{3}$ of $.. = 9$ $\frac{1}{5}$ of $45 = ?$ $\frac{1}{3}$ of $45 = ?$
 $45 \div 5 = ?$ $45 \div 9 = ?$ $45 \div ? = 5$

WRITTEN WORK.

I. If it is 44 inches around a square, how many inches long is 1 side of the square?

II. Elmer made 11 cents a day, for 4 days, selling papers. How many pennies did he make?

III. What will 11 quarts of nuts cost at 4 cents a quart?

IV. Mr. Brown sold 11 bushels of oats. How many pecks did he sell?

V. If I fill 11 gallon jugs, how many quarts will I have to put in?

VI. Fannie had 44 cents and gave $\frac{1}{4}$ of her money to her brother. How many pennies did she give her brother?

VII. Paid 42 cents for 7 yards of ribbon. What did 1 yard cost?

SEVENTH WEEK.

B THIRD.

MONDAY — LESSON XXV.

- | | | |
|----------------------|----------------------------|-----------------|
| 1. $4 \times 11 = ?$ | 2. $\frac{1}{4}$ of 44 = ? | 3. $45 + ? = 5$ |
| $5 \times 9 = ?$ | $\frac{1}{5}$ of 45 = ? | $44 + ? = 4$ |
| $7 \times 7 = ?$ | $\frac{1}{8}$ of 42 = ? | $35 + ? = 7$ |
| $8 \times 5 = ?$ | $\frac{1}{7}$ of 42 = ? | $45 + ? = 9$ |
| $9 \times 5 = ?$ | $\frac{1}{9}$ of 45 = ? | $42 + ? = 6$ |
-
4. Find $\frac{1}{5}$ of 45 roses. Find $\frac{1}{8}$ of 42 pansies.
 Find $\frac{1}{7}$ of 35 lilacs. Find $\frac{1}{11}$ of 44 frogs.
 Find $\frac{1}{3}$ of 45 toads. Find $\frac{1}{12}$ of 36 tulips
5. Find how many 4's there are in 44. $45 \div 5 = ?$
 6. Find how many 5's there are in 45. $35 \div 7 = ?$
 7. Find how many 6's there are in 42. $44 \div 4 = ?$
 8. Find how many 7's there are in 42. $45 \div 9 = ?$

WRITTEN WORK.

- I. How many pennies are there in 9 nickels?
- II. Albert has a piece of tin 9 inches long and 5 inches wide. How many square inches are there in it?
- III. I paid 5 cents for a pencil and 9 times as many pennies for a book. What did I pay for the book?
- IV. A pansy has 5 petals. If I pick 9 pansies, how many petals have I in my hand?
- V. If 5 books cost 45 cents, what will 1 book cost?
- VI. At \$5 a cord, what will 9 cords of wood cost?
- VII. If you divide 45 cents into nickels, how many nickels will you have?
- VIII. How many days are there in $\frac{1}{5}$ of the month of November?

TUESDAY — LESSON XXVI.

1.	$\begin{array}{r} 43 \\ - 23 \\ \hline 20 \end{array}$	$\begin{array}{r} 43 \\ - 20 \\ \hline 23 \end{array}$	$\begin{array}{r} 43 \\ - 19 \\ \hline 24 \end{array}$	$\begin{array}{r} 43 \\ - 24 \\ \hline 19 \end{array}$	$\begin{array}{r} 43 \\ - 18 \\ \hline 25 \end{array}$	$\begin{array}{r} 43 \\ - 14 \\ \hline 29 \end{array}$	$\begin{array}{r} 43 \\ - 25 \\ \hline 18 \end{array}$	$\begin{array}{r} 43 \\ - 17 \\ \hline 26 \end{array}$	$\begin{array}{r} 43 \\ - 30 \\ \hline 13 \end{array}$
	$\begin{array}{r} 43 \\ - 9 \\ \hline 34 \end{array}$	$\begin{array}{r} 43 \\ - 28 \\ \hline 15 \end{array}$	$\begin{array}{r} 43 \\ - 5 \\ \hline 38 \end{array}$	$\begin{array}{r} 43 \\ - 21 \\ \hline 22 \end{array}$	$\begin{array}{r} 43 \\ - 16 \\ \hline 27 \end{array}$	$\begin{array}{r} 43 \\ - 13 \\ \hline 30 \end{array}$	$\begin{array}{r} 43 \\ - 26 \\ \hline 17 \end{array}$	$\begin{array}{r} 43 \\ - 27 \\ \hline 16 \end{array}$	$\begin{array}{r} 43 \\ - 37 \\ \hline 6 \end{array}$
Add—									
2.	$\begin{array}{r} 7 \\ 36 \\ \hline 43 \end{array}$	$\begin{array}{r} 29 \\ 14 \\ \hline 43 \end{array}$	$\begin{array}{r} 17 \\ 26 \\ \hline 43 \end{array}$	$\begin{array}{r} 23 \\ 20 \\ \hline 43 \end{array}$	$\begin{array}{r} 15 \\ 28 \\ \hline 43 \end{array}$	$\begin{array}{r} 33 \\ 10 \\ \hline 43 \end{array}$	$\begin{array}{r} 3 \\ 40 \\ \hline 43 \end{array}$	$\begin{array}{r} 25 \\ 18 \\ \hline 43 \end{array}$	$\begin{array}{r} 19 \\ 24 \\ \hline 43 \end{array}$
	$\begin{array}{r} 28 \\ 15 \\ \hline 43 \end{array}$	$\begin{array}{r} 34 \\ 9 \\ \hline 43 \end{array}$	$\begin{array}{r} 6 \\ 37 \\ \hline 43 \end{array}$	$\begin{array}{r} 12 \\ 31 \\ \hline 43 \end{array}$	$\begin{array}{r} 35 \\ 8 \\ \hline 43 \end{array}$	$\begin{array}{r} 30 \\ 13 \\ \hline 43 \end{array}$	$\begin{array}{r} 27 \\ 16 \\ \hline 43 \end{array}$	$\begin{array}{r} 39 \\ 4 \\ \hline 43 \end{array}$	$\begin{array}{r} 38 \\ 5 \\ \hline 43 \end{array}$

3. Find how many ounces in $\frac{1}{4}$ of a pound. $42 \div 7 = ?$

4. Find how many days in $\frac{1}{7}$ of a week. $40 \div 5 = ?$

5. Find how many months in 2 years. $44 \div 11 = ?$

WRITTEN WORK.

I. There are 45 sheep in one pasture and 5 times as many in a second pasture. How many are there in the second pasture?

II. Four boys earned 36 cents cutting grass together. How many pennies was that apiece?

III. Twelve pennies is $\frac{1}{4}$ of the money Charlie had to spend the day of the picnic. How many pennies did he have?

IV. How many ounces are there in $\frac{1}{4}$ of a pound of tea?

V. How many cents are there in $\frac{1}{10}$ of a dollar?

VI. Pontiac is 26 miles north of Detroit. What will it cost to go there at 3 cents a mile?

VII. Write in words XXVII, XI, VIII, and XXIV.

THURSDAY — LESSON XXVII.

1. Twenty-four days and — days are 43 days.
Ten schools and — schools are 43 schools.
Sixteen ears and — ears are 43 ears.
Eleven shovels and — shovels are 43 shovels.
Fourteen brushes and — brushes are 43 brushes.
Twenty-seven kites and — kites are 43 kites.
2. Forty-six squirrels less 21 squirrels are — squirrels.
Forty-six birds less 19 birds are — birds.
Forty-six rings less 12 rings are — rings.
Forty-six sleighs less 16 sleighs are — sleighs.
Forty-six donkeys less 13 donkeys are — donkeys.
Forty-six mules less 37 mules are — mules.
3. Find $\frac{1}{4}$ of 44 trees. Find $\frac{1}{8}$ of 42 pens.
Find $\frac{1}{5}$ of 45 tons. Find $\frac{1}{7}$ of 42 bells.
Find $\frac{1}{8}$ of 48 days. Find $\frac{1}{9}$ of 45 lambs.

WRITTEN WORK.

I. James had 35 cents and spent 15 cents for a ball.
How many pennies had he left?

II. If 4 dozen eggs cost 48 cents, what will 1 dozen cost
at the same rate?

III. There are 41 stationary bridges in Cleveland, 10
swing bridges, and 10 railroad bridges. How many are
there altogether?

IV. How many pints are there in $\frac{1}{4}$ of a gallon?

V. How many days are there in 6 weeks?

VI. If George earns 75 cents a week selling papers,
how many dollars and cents will he earn in a month?

VII. Find the distance around a room that is 16 feet
long and 9 feet wide.

FRIDAY — LESSON XXVIII.

$$\begin{array}{r}
 1. \quad \begin{array}{r} 46 \\ \hline 37 \end{array} \quad \begin{array}{r} 46 \\ \hline 10 \end{array} \quad \begin{array}{r} 46 \\ \hline 34 \end{array} \quad \begin{array}{r} 46 \\ \hline 17 \end{array} \quad \begin{array}{r} 46 \\ \hline 31 \end{array} \quad \begin{array}{r} 46 \\ \hline 11 \end{array} \quad \begin{array}{r} 46 \\ \hline 2 \end{array} \quad \begin{array}{r} 46 \\ \hline 6 \end{array} \quad \begin{array}{r} 46 \\ \hline 41 \end{array} \\
 \begin{array}{r} 46 \\ \hline 36 \end{array} \quad \begin{array}{r} 46 \\ \hline 9 \end{array} \quad \begin{array}{r} 46 \\ \hline 3 \end{array} \quad \begin{array}{r} 46 \\ \hline 15 \end{array} \quad \begin{array}{r} 46 \\ \hline 18 \end{array} \quad \begin{array}{r} 46 \\ \hline 19 \end{array} \quad \begin{array}{r} 46 \\ \hline 24 \end{array} \quad \begin{array}{r} 46 \\ \hline 23 \end{array} \quad \begin{array}{r} 46 \\ \hline 29 \end{array}
 \end{array}$$

2. $5 \times 8 = ?$ 3. $\frac{1}{8}$ of 48 = ? 4. What is $\frac{1}{3}$ of 36?
 $8 \times 6 = ?$ $\frac{1}{5}$ of 45 = ? What is $\frac{1}{5}$ of 45?
 $5 \times 9 = ?$ $\frac{1}{6}$ of 42 = ? What is $\frac{1}{6}$ of 42?
 $4 \times 11 = ?$ $\frac{1}{11}$ of 44 = ? What is $\frac{1}{3}$ of 45?
 $6 \times 7 = ?$ $\frac{1}{8}$ of 40 = ? What is $\frac{1}{8}$ of 48?
5. $48 = 4 \times 12,$ $12 \times 4,$ $6 \times 8,$ 8×6 $\frac{1}{4}$ of 48 = ?
 $\frac{1}{8}$ of 48 = ? $\frac{1}{8}$ of 48 = ? $\frac{1}{12}$ of 48 = ? $48 \div 6 = ?$
 $48 \div 4 = ?$ $48 \div 8 = ?$ $48 \div 12 = ?$ $48 \div ? = 4$

WRITTEN WORK.

I. The Detroit and Cleveland steamers make 15 miles an hour. One of their steamers leaving her dock in Detroit at 11 p. m. will be in Cleveland at 7 a. m. the next morning. How many miles is it from Detroit to Cleveland?

II. I counted 3 veins on each side of the midrib in a lilac leaf. How many veins are there in 24 such leaves?

III. On the Mayflower there were 48 men, 22 women, 23 boys and 9 girls. How many persons were there in all?

IV. Squanto told the Pilgrims to put 3 fish in every hill of corn. How many fish would a man have to catch for 75 hills of corn?

V. How old is a man who is four-score years and ten?

EIGHTH WEEK.**B THIRD.****MONDAY — LESSON XXIX.**

1. Find number of hours there are in $\frac{1}{2}$ of a day.
Find number of pecks there are in $\frac{1}{4}$ of a bushel.
Find number of inches there are in $\frac{1}{3}$ of a foot.
Find number of minutes there are in $\frac{1}{2}$ of an hour.
Find number of apples there are in $\frac{1}{6}$ of a dozen apples.
 2. How many are 7 times 6 books?
How many are 8 times 6 horses?
How many are 6 times 7 flowers?
How many are 9 times 5 roses?
How many are 4 times 11 pears?
 3. Write in words XV, XXIII, XVIII, VI, XIV.
-

WRITTEN WORK.

- I. Willie gathered 7 quarts of nuts and Herbert gathered 6 times as many. How many did Herbert gather?
- II. How many quarts did they both gather?
- III. Mary had 45 pennies and spent $\frac{1}{3}$ of them for some bananas. How many pennies did she spend?
- IV. How many pennies had Mary left?
- V. Walter had 42 marbles and gave 7 to his brother. What part of his marbles did he give his brother?
- VI. Divide 45 apples equally among 9 boys. How many apples will each boy receive?
- VII. Harry had 48 cents and James had $\frac{1}{4}$ as many. How many had James?

TUESDAY — LESSON XXX.

1. $48 \div 6 = ?$ $7 \times 6 = ?$ $\frac{1}{7}$ of 49 = ? 6 is $\frac{1}{6}$ of ?
 $42 \div 7 = ?$ $4 \times 9 = ?$ $\frac{1}{8}$ of 48 = ? 7 is $\frac{1}{7}$ of ?
 $45 \div 9 = ?$ $8 \times 6 = ?$ $\frac{1}{9}$ of 40 = ? 8 is $\frac{1}{8}$ of ?
 $44 \div 11 = ?$ $9 \times 5 = ?$ $\frac{1}{5}$ of 45 = ? 4 is $\frac{1}{4}$ of ?
 $48 \div 8 = ?$ $4 \times 12 = ?$ $\frac{1}{10}$ of 40 = ? 9 is $\frac{1}{9}$ of ?
 $11 \times ? = 44$ $8 \times ? = 32$ $9 \times ? = 45$ $8 \times ? = 48$
 $4 \times ? = 44$ $7 \times ? = 28$ $9 \times ? = 27$ $5 \times ? = 45$
2. Find $\frac{1}{3}$ of 36 pineapples. Find $\frac{1}{5}$ of 45 days.
Find $\frac{1}{4}$ of 48 peaches. Find $\frac{1}{6}$ of 42 bells.
How many days in $\frac{1}{10}$ of June?
How many minutes in $\frac{1}{6}$ of a half hour?
How many seconds in $\frac{1}{3}$ of a minute?
Six times 7 equals what?

WRITTEN WORK.

I. Twelve spoons make a dozen. How many dozen will 48 spoons make?

II. Willie's mamma made 4 dozen cookies and gave him $\frac{1}{2}$ of them. How many cookies did Willie receive?

III. Anna bought a cup and saucer for 48 cents. If the cup cost 28 cents, what was the price of the saucer?

IV. Twelve squares have 48 sides. How many sides have $\frac{1}{3}$ of 48 squares?

V. The steamer Northwest is 386 feet long, the U. S. cruiser Brooklyn 400 feet long, and the City of Mackinac 280 feet long. Find their total length.

VI. Etta went to the store and bought a pound of butter for 28 cents, $\frac{1}{2}$ peck of apples for 15 cents, a cabbage for 4 cents, yeast for 2 cents, and a loaf of bread for 5 cents. How much change will she receive from 96 cents?

THURSDAY — LESSON XXXI.

Add—

1.	18	35	9	14	5	10	34	15	46	17	8	42
	<u>29</u>	<u>12</u>	<u>38</u>	<u>33</u>	<u>42</u>	<u>37</u>	<u>13</u>	<u>32</u>	<u>1</u>	<u>30</u>	<u>39</u>	<u>5</u>

Subtract—

2.	47	47	47	47	47	47	47	47	47	47
	<u>3</u>	<u>12</u>	<u>33</u>	<u>9</u>	<u>30</u>	<u>16</u>	<u>29</u>	<u>11</u>	<u>4</u>	<u>13</u>
	47	47	47	47	47	47	47	47	47	47
	<u>32</u>	<u>39</u>	<u>10</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>14</u>	<u>15</u>	<u>17</u>	<u>19</u>

3. Write in Roman notation 27, 18, 26, 9, 25, 10 and 24.

4.	16	42	4	26	7	33	1	35	16
	$\begin{array}{r} +.. \\ \hline 43 \end{array}$	$\begin{array}{r} +.. \\ \hline 46 \end{array}$	$\begin{array}{r} +.. \\ \hline 47 \end{array}$	$\begin{array}{r} +.. \\ \hline 43 \end{array}$	$\begin{array}{r} +.. \\ \hline 47 \end{array}$	$\begin{array}{r} +.. \\ \hline 46 \end{array}$	$\begin{array}{r} +.. \\ \hline 46 \end{array}$	$\begin{array}{r} +.. \\ \hline 43 \end{array}$	$\begin{array}{r} +.. \\ \hline 47 \end{array}$
	37	9	30	25	28	36	17	19	15
	$\begin{array}{r} +.. \\ \hline 46 \end{array}$	$\begin{array}{r} +.. \\ \hline 43 \end{array}$	$\begin{array}{r} +.. \\ \hline 47 \end{array}$	$\begin{array}{r} +.. \\ \hline 47 \end{array}$	$\begin{array}{r} +.. \\ \hline 42 \end{array}$	$\begin{array}{r} +.. \\ \hline 41 \end{array}$	$\begin{array}{r} +.. \\ \hline 45 \end{array}$	$\begin{array}{r} +.. \\ \hline 48 \end{array}$	$\begin{array}{r} +.. \\ \hline 49 \end{array}$

WRITTEN WORK.

I. I gave 4 pennies each for 1 dozen oranges. What did I pay for the dozen?

II. Susie bought 4 quarts of strawberries at 12 cents a quart. How much did she pay for them?

III. How many feet is it around a square that is 12 feet on a side?

IV. George has 12 chickens and in a few days will have 36 more. How many will he have then?

V. Henry earned 48 cents in 4 days. How many cents did he earn in 1 day?

VI. If 2 dozen oranges cost 24 cents, what will 4 dozen cost?

FRIDAY — LESSON XXXII.

1. Forty-six months less 6 months are — months.

Forty-seven dolls less 20 dolls are — dolls.

Forty-three dimes less 40 dimes are — dimes.

Forty-seven pints less 11 pints are — pints.

Forty-six quarts less 15 quarts are — quarts.

Forty-three gallons less 8 gallons are — gallons.

$$49 = 7 \times 7$$

$$\frac{1}{7} \text{ of } 49 = ?$$

$$49 \div 7 = ?$$

$$50 = 5 \times 10, 10 \times 5$$

$$\frac{1}{5} \text{ of } 50 = ?$$

$$\frac{1}{10} \text{ of } 50 = ?$$

$$50 \div 5 = ?$$

$$50 \div 10 = ?$$

$$\begin{array}{r} 2. \quad \begin{array}{r} 12 \\ +.. \\ \hline 51 \end{array} \quad \begin{array}{r} 28 \\ +.. \\ \hline 51 \end{array} \quad \begin{array}{r} 14 \\ +.. \\ \hline 51 \end{array} \quad \begin{array}{r} 38 \\ +.. \\ \hline 51 \end{array} \quad \begin{array}{r} 40 \\ +.. \\ \hline 51 \end{array} \quad \begin{array}{r} 9 \\ +.. \\ \hline 51 \end{array} \quad \begin{array}{r} 27 \\ +.. \\ \hline 51 \end{array} \quad \begin{array}{r} 10 \\ +.. \\ \hline 51 \end{array} \quad \begin{array}{r} 19 \\ +.. \\ \hline 51 \end{array} \quad \begin{array}{r} 6 \\ +.. \\ \hline 51 \end{array} \end{array}$$

3. Write in Roman notation 30, 27, 14, 8, 21.

WRITTEN WORK.

I. How many working-days are there in 7 weeks?

II. At \$7 a dress, how many dresses can be bought with \$49?

III. One beetle has 6 legs. How many legs have 8 beetles?

IV. Edna has 49 pennies. If she gives her sister Helen $\frac{1}{7}$ of them, how many will she have left?

V. How many hours will a man work in 5 days, if he works 9 hours a day?

VI. Find 1 side of a square lot, the distance around which is 84 feet.

VII. Henry went to the pansy bed 4 times, and each time picked 11 pansies. How many did he pick in all?

NINTH WEEK.

B THIRD.

MONDAY — LESSON XXXIII.

Subtract—

1.	$\frac{51}{27}$	$\frac{51}{13}$	$\frac{51}{21}$	$\frac{51}{8}$	$\frac{51}{31}$	$\frac{51}{22}$	$\frac{51}{10}$	$\frac{51}{28}$	$\frac{51}{41}$	$\frac{51}{12}$
	$\frac{51}{29}$	$\frac{51}{6}$	$\frac{51}{10}$	$\frac{51}{19}$	$\frac{51}{32}$	$\frac{51}{39}$	$\frac{51}{26}$	$\frac{51}{18}$	$\frac{51}{9}$	$\frac{51}{23}$

2. Find how many quarts there are in a gallon.
 Find how many quarts there are in a peck.
 Find how many pecks there are in a bushel.
 Find how many pints there are in 2 quarts.
 Find how many quarts there are in 1 bushel.
3. Forty-one books less 6 books equal — books.
 Forty-seven stars less 7 stars equal — stars.
 Find $\frac{1}{2}$ of 24 gallons. Find $\frac{1}{4}$ of 16 pecks.
 Find $\frac{1}{3}$ of 30 birds. Find $\frac{1}{6}$ of 18 dolls.
 Find $\frac{1}{7}$ of 21 pints. Find $\frac{1}{5}$ of 45 frogs.

WRITTEN WORK.

I. Susie had 45 cents and lost 9 cents. What part of her money did she lose?

II. The Steamer City of Alpena is 280 feet long, the City of Detroit 297 feet long, and the ferryboat Promise 130 feet long. Find the combined length of these boats.

III. The first American vessel was built at Erie in 1797. The first iron steamboat was built in 1830. How many years was it between the two events?

IV. How many legs have $\frac{1}{6}$ of 36 spiders?

V. Daisy had 4 dimes and a nickel. How many pennies had she?

TUESDAY — LESSON XXXIV.

- | | | | |
|---------------------|------------------|----------------------------|--------------------|
| 1. $5 \times 9 = ?$ | $40 \div 5 = ?$ | $\frac{1}{9}$ of $45 = ?$ | $6 \times ? = 42$ |
| $8 \times 4 = ?$ | $24 \div 6 = ?$ | $\frac{1}{8}$ of $42 = ?$ | $8 \times ? = 16$ |
| $6 \times 7 = ?$ | $42 \div 7 = ?$ | $\frac{1}{6}$ of $45 = ?$ | $9 \times ? = 45$ |
| $10 \times 4 = ?$ | $45 \div 5 = ?$ | $\frac{1}{10}$ of $40 = ?$ | $12 \times ? = 48$ |
| $7 \times 7 = ?$ | $40 \div 10 = ?$ | $\frac{1}{7}$ of $49 = ?$ | $9 \times ? = 36$ |
| $48 \div ? = 12$ | $45 \div ? = 9$ | $40 \div ? = 10$ | $44 \div ? = 11$ |
| $32 \div ? = 8$ | $49 \div ? = 7$ | $50 \div ? = 5$ | $50 \div ? = 10$ |

2. What is $\frac{1}{3}$ of 36 yards of ribbon? $\frac{1}{6}$ of \$24 = ?
 What is $\frac{1}{12}$ of 48 quarts of oil? $\frac{1}{8}$ of \$16 = ?
 What is $\frac{1}{11}$ of 33 dozen bananas? $\frac{1}{12}$ of \$48 = ?
 What is $\frac{1}{8}$ of 40 lead pencils? $\frac{1}{11}$ of \$33 = ?
 What is $\frac{1}{6}$ of 48 red roses? $\frac{1}{3}$ of \$45 = ?
3. How many inches are there in 5 feet?
 How many eggs are there in 5 dozen?
 How many pennies are there in 4 dimes?

WRITTEN WORK.

- I. How many school days are there in 10 weeks?
- II. If Willie stays at home $\frac{1}{10}$ of those days, how many days is he in school?
- III. Joseph saw 50 squirrels in the park. If $\frac{1}{5}$ of them were gray and the remainder were red, how many red ones did he see?
- IV. Lincoln Park, Chicago, contains 250 acres, Garfield Park 185 acres, and Jackson Park 586 acres. How many acres are there in these three parks?

THURSDAY — LESSON XXXV.

1. How many minutes are there in 1 hour?
How many days are there in November and June?
2. What is the cost of 12 cords of wood at \$4 a cord?
What is the cost of 6 tons of coal at \$6 a ton?
What is the cost of 7 barrels of pork at \$7 a barrel?
What is the cost of 4 tons of hay at \$11 a ton?
3. Find how many quarts there are in 6 pecks.
Find how many pints there are in 6 gallons.
Find how many dimes there are in \$6.
Find how many pennies there are in 4 dimes.
Find how many pennies there are in 9 nickels.
Find how many eggs there are in $4\frac{1}{2}$ dozens.
 $54 = 6 \times 9$, 9×6 $\frac{1}{3}$ of $54 = ?$ $\frac{1}{3}$ of $54 = ?$
 $54 \div 6 = ?$ $54 \div 9 = ?$

WRITTEN WORK.

- I. A farmer threshed 10 bushels of oats and 5 times as many bushels of wheat. How many bushels of wheat did he thresh?
- II. George played 10 minutes a day at noon for 5 days. How many minutes did he play altogether?
- III. Philip had 50 pennies and spent $\frac{1}{5}$ of them for a book. How many pennies had he left?
- IV. Levi had 10 cents and earned 4 times as many cleaning sidewalks. How many cents did he earn?
- V. A street car company had 50 horses and sold $\frac{1}{5}$ of them. How many were left?
- VI. How many cents are there in $\frac{1}{2}$ of a dollar?

FRIDAY — LESSON XXXVI.

Add—

1.	13	15	27	36	14	12	41	46	8	33
	<u>36</u>	<u>34</u>	<u>22</u>	<u>13</u>	<u>35</u>	<u>37</u>	<u>8</u>	<u>3</u>	<u>41</u>	<u>16</u>

Subtract—

2.	49	49	49	49	49	49	49	49	49	49
	<u>6</u>	<u>7</u>	<u>18</u>	<u>19</u>	<u>12</u>	<u>24</u>	<u>25</u>	<u>38</u>	<u>15</u>	<u>13</u>

$$3. \quad 4 \times 8 = ? \quad 5 \times 6 = ? \quad 8 \times 5 = ? \quad 6 \times 6 = ?$$

$$7 \times 6 = ? \quad 11 \times 4 = ? \quad 5 \times 11 = ? \quad 10 \times 5 = ?$$

$$4 \times ? = 40 \quad 9 \times ? = 36 \quad 6 \times ? = 42 \quad 3 \times ? = 30$$

$$4 \times ? = 48 \quad 7 \times ? = 49 \quad 55 = 11 \times 5 \quad 6 \times ? = 36$$

$$4. \quad 36 \div 4 = ? \quad 48 \div 6 = ? \quad 35 \div 5 = ? \quad 42 \div 7 = ?$$

$$40 \div 5 = ? \quad 55 = 5 \times 11 \quad 55 \div 11 = ? \quad 36 \div 4 = ?$$

$$40 \div ? = 10 \quad 42 \div ? = 7 \quad 35 \div ? = 5 \quad 48 \div ? = 12$$

$$33 \div ? = 11 \quad 55 \div 5 = ? \quad 55 \div ? = 11 \quad 45 \div ? = 5$$

$$5. \quad \text{What is } \frac{1}{4} \text{ of 49 quarts?}$$

$$\text{What is } \frac{1}{3} \text{ of 24 quarts?}$$

$$\text{What is } \frac{1}{3} \text{ of 18 gallons?}$$

$$\text{What is } \frac{1}{10} \text{ of 20 pecks?}$$

$$\text{What is } \frac{1}{2} \text{ of 16 marbles?}$$

WRITTEN WORK.

I. How many cents are there in 5 dimes?

II. How many cents are there in 10 nickels?

III. How many school days are there in 10 weeks?

IV. How many minutes are there in 1 hour less 10 minutes?

V. How much will 10 cords of wood cost at \$5 a cord?

VI. A farmer having 50 bushels of wheat, sold $\frac{1}{10}$ of it. How many bushels had he left?

VII. What will 2 cans of oysters cost at 25 cents a can?

TENTH WEEK.

B THIRD.

MONDAY — LESSON XXXVII.

Add—

1.	<u>49</u> <u>2</u> <u>12</u> <u>39</u>	<u>6</u> <u>45</u> <u>41</u> <u>6</u>	<u>12</u> <u>39</u> <u>2</u> <u>44</u>	<u>41</u> <u>10</u> <u>38</u> <u>8</u>	<u>43</u> <u>8</u> <u>27</u> <u>8</u>	<u>13</u> <u>28</u> <u>31</u> <u>7</u>	<u>39</u> <u>12</u> <u>16</u> <u>32</u>	<u>11</u> <u>40</u> <u>31</u> <u>19</u>	<u>46</u> <u>5</u> <u>25</u> <u>15</u>
2.	<u>52</u> <u>-10</u> <u>52</u> <u>-23</u>	<u>52</u> <u>-32</u> <u>52</u> <u>-9</u>	<u>52</u> <u>-21</u> <u>52</u> <u>-22</u>	<u>52</u> <u>-25</u> <u>52</u> <u>-11</u>	<u>52</u> <u>-16</u> <u>52</u> <u>-24</u>	<u>52</u> <u>-19</u> <u>52</u> <u>-27</u>	<u>52</u> <u>-28</u> <u>52</u> <u>-14</u>	<u>52</u> <u>-17</u> <u>52</u> <u>-36</u>	<u>52</u> <u>-8</u> <u>52</u> <u>-13</u>
3.	<u>47</u> <u>+..</u> <u>52</u> <u>21</u> <u>+..</u> <u>52</u>	<u>29</u> <u>+..</u> <u>52</u> <u>12</u> <u>+..</u> <u>52</u>	<u>43</u> <u>+..</u> <u>52</u> <u>49</u> <u>+..</u> <u>52</u>	<u>6</u> <u>+..</u> <u>52</u> <u>5</u> <u>+..</u> <u>52</u>	<u>28</u> <u>+..</u> <u>52</u> <u>19</u> <u>+..</u> <u>52</u>	<u>32</u> <u>+..</u> <u>52</u> <u>7</u> <u>+..</u> <u>52</u>	<u>13</u> <u>+..</u> <u>52</u> <u>37</u> <u>+..</u> <u>52</u>	<u>41</u> <u>+..</u> <u>52</u> <u>14</u> <u>+..</u> <u>52</u>	<u>36</u> <u>+..</u> <u>52</u> <u>24</u> <u>+..</u> <u>52</u>
4.	56 = 7 × 8, 8 × 7			$\frac{1}{4}$ of 56 = ?			$\frac{1}{8}$ of 56 = ?		
	56 ÷ 7 = ?		56 ÷ 8 = ?						

WRITTEN WORK.

I. Willie had 50 pennies and gave 10 cents apiece to his four brothers. How many pennies had he left?

II. The steamer Northwest can carry 500 passengers. If $\frac{1}{4}$ of them stop over at Detroit, how many wish to visit the "City of the Straits?"

III. A flower bed is 10 feet long and 5 feet wide. Find the surface.

IV. The Ferris wheel is 83 yards in diameter. How many feet is that?

V. How many days are there in 8 weeks?

VI. How many pints are there in 7 gallons?

TUESDAY — LESSON XXXVIII.

Add—

1.	<u>42</u>	<u>16</u>	<u>18</u>	<u>40</u>	<u>15</u>	<u>41</u>	<u>46</u>	<u>12</u>	<u>29</u>
	<u>15</u>	<u>41</u>	<u>39</u>	<u>17</u>	<u>42</u>	<u>16</u>	<u>7</u>	<u>40</u>	<u>27</u>
	<u>44</u>	<u>11</u>	<u>9</u>	<u>6</u>	<u>30</u>	<u>17</u>	<u>12</u>	<u>16</u>	<u>27</u>
	<u>13</u>	<u>46</u>	<u>48</u>	<u>51</u>	<u>29</u>	<u>39</u>	<u>37</u>	<u>48</u>	<u>28</u>

Subtract—

2.	<u>53</u>	<u>53</u>	<u>45</u>	<u>51</u>	<u>57</u>	<u>53</u>	<u>52</u>	<u>51</u>	<u>57</u>
	<u>2</u>	<u>12</u>	<u>8</u>	<u>6</u>	<u>14</u>	<u>27</u>	<u>43</u>	<u>28</u>	<u>16</u>
	<u>53</u>	<u>52</u>	<u>51</u>	<u>57</u>	<u>55</u>	<u>54</u>	<u>50</u>	<u>49</u>	<u>56</u>
	<u>46</u>	<u>12</u>	<u>4</u>	<u>41</u>	<u>29</u>	<u>17</u>	<u>18</u>	<u>37</u>	<u>29</u>

3.	$45 + 2 = ?$	$41 - 19 = ?$	$7 + ? = 51$
	$43 + 3 = ?$	$43 - 11 = ?$	$9 + ? = 51$
	$41 + 5 = ?$	$46 - 5 = ?$	$6 + ? = 51$
	$38 + 5 = ?$	$47 - 6 = ?$	$8 + ? = 51$
	$8 + 35 = ?$	$51 - 10 = ?$	$10 + ? = 51$
	$43 - ? = 4$	$\frac{1}{8}$ of $40 = ?$	
	$43 - ? = 35$	$\frac{1}{12}$ of $12 = ?$	
	$46 - ? = 5$	$\frac{1}{8}$ of $36 = ?$	
	$46 - ? = 44$	$\frac{1}{7}$ of $35 = ?$	
	$47 - ? = 39$	$\frac{1}{8}$ of $32 = ?$	

4. Write in words 18, 26, 9, 27, 10, 25, 15 and 24.

WRITTEN WORK.

I. What will a peck of berries cost at 7 cents a quart?

II. Harvey worked 8 weeks and received \$56. What did he receive a week?

III. Ella bought 8 picture cards at 7 pennies each. What did she pay for all?

IV. Irene had 56 cents and spent $\frac{1}{7}$ of them for a pencil box. How many cents had she left?

THURSDAY — LESSON XXXIX.

1. How many ounces in $\frac{1}{2}$ of a pound?How many inches in $\frac{1}{3}$ of a yard?

2.	14	45	10	9	27	44	7	51	47
	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$
	52	17	39	13	16	18	19	25	21
	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$	$\begin{array}{r} +.. \\ \hline 57 \end{array}$

3. What is $\frac{1}{7}$ of 7 quarts?What is $\frac{1}{7}$ of 14 quarts?What is $\frac{1}{8}$ of 24 quarts?What is $\frac{1}{9}$ of 36 quarts?What is $\frac{1}{10}$ of 30 quarts?4. What is $\frac{1}{7}$ of 28 quarts?What is $\frac{1}{7}$ of 42 quarts?What is $\frac{1}{7}$ of 49 quarts?What is $\frac{1}{8}$ of 48 quarts?What is $\frac{1}{11}$ of 22 quarts?

WRITTEN WORK.

I. Charlie bought a slate for \$.20, a Dixon lead pencil for \$.05, a blank book for \$.10, and spelling slips for \$.05. How much did they all cost?

II. Jennie had 56 carnations and took $\frac{1}{8}$ of them to a sick lady. How many had she left?

III. How far is it around a field that is 16 rods on the side, and 8 rods in front?

IV. How many quarts of blackberries are there in 7 pecks?

V. Mr. Gray earns \$56 in 7 weeks. How much does he earn in 1 week?

VI. Carl is 7 years old and his father is 8 times as old as Carl. How old is the father?

VII. Which cost more, 7 tons of hay at \$8 a ton or 9 tons of coal at \$6 a ton?

FRIDAY — LESSON XL.

- | | | |
|------------------|---------------|---------------|
| 1. $51 - 19 = ?$ | $52 + 20 = ?$ | $52 - ? = 40$ |
| $52 - 27 = ?$ | $13 + 39 = ?$ | $52 - ? = 5$ |
| $47 - 14 = ?$ | $10 + 42 = ?$ | $52 - ? = 46$ |
| $46 - 31 = ?$ | $41 + 11 = ?$ | $52 - ? = 11$ |
| $43 - 18 = ?$ | $8 + 44 = ?$ | $52 - ? = 9$ |
| $40 + ? = 47$ | $16 + 36 = ?$ | |
| $5 + ? = 46$ | $17 + 35 = ?$ | |
| $44 + ? = 46$ | $18 + 34 = ?$ | |
| $31 + ? = 50$ | $19 + 33 = ?$ | |
| $43 + ? = 51$ | $15 + 37 = ?$ | |

2. Twenty-seven glasses and — glasses equal 52 glasses.
Nine days and — days equal 52 days.
3. Fifty-one blocks less — blocks equal 26 blocks.
Fifty-two tins less — tins equal 40 tins.
Forty-seven plates less — plates equal 37 plates.

WRITTEN WORK.

I. Frank stayed 56 days in the country with his grandfather. How many weeks was he away from home?

II. The Declaration of Independence was signed July 4th, 1776. How long was this before the Centennial Exposition in 1876?

III. Gracie's father gave her 6 dimes. How many pennies has Grace?

IV. How many minutes are there in $\frac{1}{2}$ of an hour?

V. How many seconds are there in $\frac{1}{60}$ of a minute?

VI. What will 6 quarts of berries cost at 10 cents a quart?

ELEVENTH WEEK.**MONDAY — LESSON XLI.**

1. Write in words XXV, XIX, XI, XXI and XXIV.
2. How many pints are there in 1 gallon and 3 quarts?
How many quarts are there in 3 gallons and 2 quarts?
Find number of pecks there are in 2 bushels and 1 peck.

3. $7 \times 7 = ?$ $44 \div ? = 4$ $\frac{1}{7}$ of 49 = ?
 $11 \times 4 = ?$ $42 \div ? = 6$ $\frac{1}{6}$ of 36 = ?
 $5 \times 9 = ?$ $36 \div ? = 9$ $\frac{1}{7}$ of 42 = ?
 $6 \times 6 = ?$ $49 \div ? = 7$ $\frac{1}{6}$ of 45 = ?
 $7 \times 4 = ?$ $45 \div ? = 5$ $\frac{1}{4}$ of 44 = ?

11 is $\frac{1}{4}$ of ? $6 \times ? = 36$ 4 is $\frac{1}{6}$ of ? $9 \times ? = 45$ 6 is $\frac{1}{7}$ of ? $8 \times ? = 32$ 7 is $\frac{1}{6}$ of ? $4 \times ? = 44$ 5 is $\frac{1}{5}$ of ? $7 \times ? = 49$ **WRITTEN WORK.**

I. Mattie is 5 years old, and her father is 12 times as old as she is. How old is her father?

II. Millie gave 5 apples apiece to 12 boys. How many apples did she give to all?

III. If a pound of sugar cost \$.06, what will 325 pounds cost?

IV. I bought gloves for \$1.25, ribbon for \$.75, and a handkerchief for \$.48. How much did I pay for all?

V. In a street car barn there are 10 horses. How many quarts of oats will it take to feed these horses a day if 1 horse eats 6 quarts?

TUESDAY — LESSON XLII.

1. Seven times 6 quarts equal — quarts.
 Nine times 5 pecks equal — pecks.
 Eight times 4 dimes equal — dimes.
 Six times 7 hours equal — hours.
 Four times 11 cents equal — cents.
2. How many pints are there in 4 quarts?
 How many quarts are there in 5 gallons?
 How many days are there in 4 weeks?
3. $60 = 5 \times 12$, 12×5 , 6×10 , 10×6 $\frac{1}{5}$ of 60 = ?
 $\frac{1}{6}$ of 60 = ? $\frac{1}{10}$ of 60 = ? $\frac{1}{12}$ of 60 = ? $60 \div 5 = ?$
 $60 \div 6 = ?$ $60 \div 10 = ?$ $60 \div 12 = ?$
4. Write in words XV, XXVI, IX, XVIII, V.

WRITTEN WORK.

- I. If 5 quarts of raspberries cost 60 cents, what will 1 quart cost?
- II. How many inches is it around your slate?
- III. Lucy had 60 nuts and gave $\frac{1}{2}$ of them to her sister Gladys. How many nuts had she left?
- IV. A milkman started out with 60 quarts of milk and spilled $\frac{1}{3}$ of it. How many quarts did he spill?
- V. At 5 cents a quart, how much did he get for what was left?
- VI. How many minutes are there in $\frac{1}{12}$ of an hour?
- VII. If 12 lemons cost 36 cents, what part of 36 cents will 1 lemon cost?
- VIII. The first Thanksgiving Day in Detroit was in 1824. How many years was this before last Thanksgiving Day?

THURSDAY — LESSON XLIII.

1. $\frac{1}{4}$ of 49 quarts = ?
 $\frac{1}{5}$ of 27 bees = ?
 $\frac{1}{4}$ of 36 dolls = ?
 $\frac{1}{5}$ of 35 bats = ?
 $\frac{1}{3}$ of 36 marbles = ?
2. What is $\frac{1}{5}$ of 36 days?
 What is $\frac{1}{8}$ of 40 hours?
 What is $\frac{1}{4}$ of 49 beans?
 What is $\frac{1}{6}$ of 42 blotters?
 What is $\frac{1}{10}$ of 30 pennies?
3. How many months are there in 3 years?
 How many inches are there in 2 feet?
 Find how many oranges there are in $\frac{1}{3}$ of a dozen.
 What part of 12 is 3?
 Find number of days there are in September.
 Find $\frac{1}{2}$ the number of minutes there are in an hour.

Add—

4.	18	35	9	14	5	10	34	15	46
	<u>29</u>	<u>12</u>	<u>38</u>	<u>33</u>	<u>42</u>	<u>37</u>	<u>13</u>	<u>32</u>	<u>1</u>
	17	13	8	42	16	32	39	10	37
	<u>30</u>	<u>34</u>	<u>39</u>	<u>5</u>	<u>41</u>	<u>25</u>	<u>14</u>	<u>47</u>	<u>17</u>

WRITTEN WORK.

I. A school term is 20 weeks, with 5 days in a week. How many school days are there in a term?

II. How many miles farther is it from New York to Buffalo—422 miles—than from New York to Washington, D. C., a distance of 228 miles?

III. How many days are there in June?

IV. How many ounces are there in $\frac{1}{8}$ of a pound?

V. Lake Michigan is 360 miles long, Lake Superior 460 miles long, and Lake Erie 250 miles long. Find the total length of the three lakes.

FRIDAY — LESSON XLIV.

Subtract—

$$\begin{array}{r}
 1. \quad \begin{array}{r} 47 \\ \underline{3} \end{array} \quad \begin{array}{r} 47 \\ \underline{12} \end{array} \quad \begin{array}{r} 47 \\ \underline{33} \end{array} \quad \begin{array}{r} 47 \\ \underline{9} \end{array} \quad \begin{array}{r} 47 \\ \underline{30} \end{array} \quad \begin{array}{r} 47 \\ \underline{16} \end{array} \quad \begin{array}{r} 47 \\ \underline{29} \end{array} \quad \begin{array}{r} 47 \\ \underline{11} \end{array} \quad \begin{array}{r} 47 \\ \underline{4} \end{array}
 \end{array}$$

2. Write in Roman notation 27, 18, 26, 9, 25, 10, 24.

$$\begin{array}{r}
 3. \quad \begin{array}{r} 16 \\ +.. \\ \hline 43 \end{array} \quad \begin{array}{r} 42 \\ +.. \\ \hline 46 \end{array} \quad \begin{array}{r} 4 \\ +.. \\ \hline 47 \end{array} \quad \begin{array}{r} 26 \\ +.. \\ \hline 43 \end{array} \quad \begin{array}{r} 7 \\ +.. \\ \hline 47 \end{array} \quad \begin{array}{r} 33 \\ +.. \\ \hline 46 \end{array} \quad \begin{array}{r} 1 \\ +.. \\ \hline 46 \end{array} \quad \begin{array}{r} 35 \\ +.. \\ \hline 43 \end{array} \quad \begin{array}{r} 16 \\ +.. \\ \hline 47 \end{array}
 \end{array}$$

4. Forty-six months less 6 months are — months.

Forty-seven dolls less 20 dolls are — dolls.

Forty-three dimes less 40 dimes are — dimes.

Forty-seven pints less 11 pints are — pints.

Forty-six quarts less 15 quarts are — quarts.

Forty-three gallons less 8 gallons are — gallons.

5. Find 1 gallon in quarts.

Find $\frac{1}{2}$ of 24 gallons.

Find 1 peck in quarts.

Find $\frac{1}{3}$ of 30 birds.

Find 1 bushel in pecks.

Find $\frac{1}{4}$ of 16 pecks.

Find 2 quarts in pints.

Find $\frac{1}{6}$ of 18 dolls.

Find 1 bushel in quarts.

Find $\frac{1}{7}$ of 21 pints.

WRITTEN WORK.

I. Find the surface of a flower bed 7 feet long and 6 feet wide.

II. At 26 cents each, what will 6 books cost?

III. George Washington was born in Virginia in 1732. How old was he when he was chosen Commander-in-Chief in 1776?

IV. If 9 loaves of bread cost \$.45, what will 1 loaf cost?

V. From \$10.89 take \$7.15.

VI. If one stove costs \$45, what will 9 stoves cost?

VII. Multiply the number of days in this month by 7.

TWELFTH WEEK.

B THIRD.

MONDAY — LESSON XLV.

1. Forty-one books less 6 books equal — books.
Forty-seven stars less 7 stars equal — stars.
2. 3 is $\frac{1}{6}$ of? $5 \times 12 = ?$ $20 + ? = 4$
 2 is $\frac{1}{8}$ of? $10 \times 5 = ?$ $6 \times ? = 18$
 10 is $\frac{1}{6}$ of? $9 \times 6 = ?$ $\frac{1}{2}$ of 8 = ?
 8 is $\frac{1}{7}$ of? $8 \times 7 = ?$ $60 + ? = 5$
 6 is $\frac{1}{10}$ of? $12 \times 5 = ?$ $6 \times ? = 12$
 30 is $\frac{1}{3}$ of? $6 \times ? = 18$
 $2 \times ? = 12$ $\frac{1}{4}$ of 44 = ?
 $33 + 11 = ?$ $24 = 3 \times ?$
 $5 \times ? = 30$ $\frac{1}{3}$ of 27 = ?
 $\frac{1}{4}$ of 28 = ? $14 + 2 = ?$
3. How many pints are there in $\frac{1}{4}$ of a gallon?
 How many quarts are there in $\frac{1}{4}$ of a bushel?
 How many pecks are there in $\frac{1}{2}$ of a bushel?

WRITTEN WORK.

- I. How many letters can I mail anywhere in the United States or in Canada for 48 cents?
- II. In 7 pecks and 3 quarts of green peas, how many quarts are there?
- III. How many pounds of sugar, worth 7 cents a pound, can I buy with 56 cents?
- IV. Find the surface of your teacher's desk in inches, if it is — feet long and — feet wide.
- V. Write in words XIII, VIII, XXV, VI and XV.
- VI. How many quarts are there in 7 pecks of potatoes?

TUESDAY — LESSON XLVI.

Add—

1.	$\begin{array}{r} 44 \\ 8 \\ \hline 39 \\ 13 \end{array}$	$\begin{array}{r} 12 \\ 40 \\ \hline 11 \\ 41 \end{array}$	$\begin{array}{r} 47 \\ 4 \\ \hline 8 \\ 43 \end{array}$	$\begin{array}{r} 10 \\ 43 \\ \hline 13 \\ 28 \end{array}$	$\begin{array}{r} 49 \\ 4 \\ \hline 37 \\ 15 \end{array}$	$\begin{array}{r} 4 \\ 48 \\ \hline 48 \\ 12 \end{array}$	$\begin{array}{r} 45 \\ 6 \\ \hline 27 \\ 32 \end{array}$	$\begin{array}{r} 46 \\ 7 \\ \hline 18 \\ 19 \end{array}$	$\begin{array}{r} 9 \\ 44 \\ \hline 15 \\ 27 \end{array}$
----	---	--	--	--	---	---	---	---	---

Subtract—

2.	$\begin{array}{r} 57 \\ 20 \\ \hline 57 \\ 46 \end{array}$	$\begin{array}{r} 57 \\ 28 \\ \hline 57 \\ 26 \end{array}$	$\begin{array}{r} 57 \\ 19 \\ \hline 57 \\ 16 \end{array}$	$\begin{array}{r} 57 \\ 32 \\ \hline 57 \\ 34 \end{array}$	$\begin{array}{r} 57 \\ 45 \\ \hline 57 \\ 47 \end{array}$	$\begin{array}{r} 57 \\ 18 \\ \hline 57 \\ 15 \end{array}$	$\begin{array}{r} 57 \\ 27 \\ \hline 57 \\ 25 \end{array}$	$\begin{array}{r} 57 \\ 33 \\ \hline 57 \\ 35 \end{array}$	$\begin{array}{r} 57 \\ 17 \\ \hline 57 \\ 21 \end{array}$
----	--	--	--	--	--	--	--	--	--

3. $30 \div 10 = ?$ $14 \div ? = 7$ $20 \div ? = 4$
 $2 \times ? = 22$ $10 \times ? = 60$ $42 \div ? = 6$

4. Find $\frac{1}{3}$ of 36 cents. Find $\frac{1}{4}$ of 32 quarts.
 Find $\frac{1}{10}$ of 50 pints. Find $\frac{1}{6}$ of 54 minutes.
 Find $\frac{1}{2}$ of 32 ounces.

WRITTEN WORK.

I. If a boy sleeps 9 hours in 1 night, how many hours will he sleep during the month of April?

II. There were 56 daisies in a field, but Gladys picked $\frac{1}{8}$ of them. How many were left in the field?

III. Find the cost of $\frac{1}{2}$ dozen bananas at 22 cents a dozen and $\frac{1}{3}$ of a dozen lemons at 27 cents a dozen.

IV. Multiply the number of days in this month by 9.

V. Our flag at the present time, April, 1895, has 44 stars. How many stars are there on 10 flags?

VI. Harry worked 10 problems on Monday, $\frac{1}{2}$ as many on Tuesday, and 8 on Wednesday. How many did he work in the 3 days?

THURSDAY — LESSON XLVII.

- | | | |
|----------------------|------------------------|--------------------------|
| 1. $5 \times 10 = ?$ | $35 \div ? = 5$ | 4 is $\frac{1}{11}$ of ? |
| $12 \times 4 = ?$ | $\frac{1}{3}$ of 9 = ? | 9 is $\frac{1}{3}$ of ? |
| $7 \times 8 = ?$ | $2 \times ? = 20$ | 8 is $\frac{1}{3}$ of ? |
| $6 \times 9 = ?$ | $8 \div 2 = ?$ | 4 is $\frac{1}{3}$ of ? |
| $4 \times 11 = ?$ | $50 \div 5 = ?$ | 6 is $\frac{1}{7}$ of ? |

$$5 \times ? = 20 \qquad \frac{1}{4} \text{ of } 24 = ?$$

$$\frac{1}{3} \text{ of } 54 = ? \qquad \frac{1}{10} \text{ of } 20 = ?$$

$$5 \times ? = 30 \qquad \frac{1}{10} \text{ of } 50 = ?$$

$$\frac{1}{3} \text{ of } 18 = ? \qquad \frac{1}{3} \text{ of } 54 = ?$$

$$\frac{1}{2} \text{ of } 20 = ? \qquad \frac{1}{7} \text{ of } 56 = ?$$

2. What will 2 bushels of beans cost at 7 cents a peck?

What will 10 yards of ribbon cost at 5 cents a yard?

What will 7 balls cost at 8 cents apiece?

What will 9 boxes cost at 6 cents apiece?

What will 12 quarts of berries cost at 5 cents a quart?

WRITTEN WORK.

I. If every maple leaf has 5 lobes, how many lobes are there on a branch that has 85 leaves?

II. How many square feet are there in a piece of iron sheeting that is 12 feet long and 2 feet wide?

III. How many 2-cent stamps can Marion buy with 50 cents?

IV. There are 936 fire alarm boxes in the city of Cleveland and 1800 in Chicago. How many more boxes are there in Chicago than in Cleveland?

V. There are 5 pennies in 1 nickel. How many pennies are there in 25 nickels?

FRIDAY — LESSON XLVIII.

1. Find number of feet in 9 yards.

Find number of ounces in 4 pounds.

Find number of pecks in 4 bushels.

Find number of quarts in 7 gallons.

Find number of days in 8 weeks.

- 2.
- $\frac{1}{2}$
- of 18 = ? 12 is
- $\frac{1}{2}$
- of ?
- $\frac{1}{2}$
- of 48 = ?

$7 \times ? = 14$ 7 is $\frac{1}{2}$ of ? $2 \times ? = 24$

$\frac{1}{3}$ of 36 = ? 6 is $\frac{1}{3}$ of ? $24 \div 2 = ?$

$21 = 7 \times ?$ 5 is $\frac{1}{10}$ of ? $12 = 4 \times ?$

$3 \times ? = 30$ 3 is $\frac{1}{3}$ of ? $\frac{1}{4}$ of 36 = ?

4 is $\frac{1}{12}$ of ? $18 \div ? = 6$

2 is $\frac{1}{6}$ of ? $2 \times 12 = ?$

8 is $\frac{1}{2}$ of ? $35 + 5 = ?$

7 is $\frac{1}{7}$ of ? $10 \times ? = 20$

5 is $\frac{1}{5}$ of ? _____ $\frac{1}{6}$ of 60 = ?

WRITTEN WORK.

I. If the blackboard in this room is — feet long and — feet wide, how many square feet are there in it?

II. In 1621, cotton culture was first introduced into the United States. How many years after this did Eli Whitney invent the cotton gin in 1743?

III. How many quarts are there in 3 pecks of potatoes?

IV. How many pecks are there in 5 bushels of beans?

V. How much farther is it from New York to New Orleans, a distance of 1413 miles, than from New York to Buffalo, a distance of 422 miles?

VI. There are 24 boys in one class, 23 boys in another, and 16 boys in another. How many are there in the three classes?

THIRTEENTH WEEK.

B THIRD.

MONDAY — LESSON XLIX.

1.	43	15	45	42	19	10	49	12	6
	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$
	50	14	29	30	9	16	26	24	17
	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$	$\begin{array}{r} +.. \\ \hline 58 \end{array}$

2. How many 2-cent stamps could be bought with \$1?
 How many 5-cent stamps could be bought with \$1?
 How many days are there in June and July?
 How many hours are there in 3 days?

Add—

3.	19	41	10	44	7	18	46	50	15
	$\begin{array}{r} 39 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ \hline \end{array}$	$\begin{array}{r} 48 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ \hline \end{array}$	$\begin{array}{r} 51 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ \hline \end{array}$
	41	53	18	39	37	16	54	41	27
	$\begin{array}{r} 17 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ \hline \end{array}$	$\begin{array}{r} 19 \\ \hline \end{array}$	$\begin{array}{r} 22 \\ \hline \end{array}$	$\begin{array}{r} 45 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ \hline \end{array}$

4. 10 is $\frac{1}{8}$ of? $6 \div 2 = ?$ $4 \div ? = 2$ $22 \div 2 = ?$
 9 is $\frac{1}{8}$ of? $3 \times 11 = ?$ $12 = 3 \times ?$ $7 \times 4 = ?$
 7 is $\frac{1}{8}$ of? $20 \times 2 = ?$ $\frac{1}{11}$ of 22 = ? $\frac{1}{4}$ of 48 = ?
 6 is $\frac{1}{8}$ of? $12 \div ? = 6$ $10 \times 3 = ?$ $18 = 3 \times ?$
 5 is $\frac{1}{11}$ of? $7 \times 2 = ?$ $\frac{1}{6}$ of 36 = ? $\frac{1}{3}$ of 21 = ?

WRITTEN WORK.

I. There were 9 boys playing baseball and 12 times as many looking on. How many boys were looking on?

II. Write in Roman notation 3, 16, 4, 27 and 9.

III. What will 6 brooms cost at 50 cents apiece?

IV. Emma paid 10 cents for a blank book, 5 cents for a pencil and took 35 cents home. How much money had she at first?

TUESDAY — LESSON L.

Add—

1.	<u>13</u> <u>40</u>	<u>11</u> <u>42</u>	<u>28</u> <u>25</u>	<u>8</u> <u>45</u>	<u>12</u> <u>41</u>	<u>22</u> <u>31</u>	<u>43</u> <u>10</u>	<u>19</u> <u>34</u>	<u>13</u> <u>40</u>
	<u>49</u> <u>4</u>	<u>27</u> <u>26</u>	<u>15</u> <u>38</u>	<u>36</u> <u>17</u>	<u>53</u> <u>19</u>	<u>53</u> <u>26</u>	<u>53</u> <u>17</u>	<u>53</u> <u>20</u>	<u>53</u> <u>39</u>

Subtract—

2.	<u>53</u> <u>27</u>	<u>53</u> <u>13</u>	<u>53</u> <u>14</u>	<u>53</u> <u>29</u>	<u>53</u> <u>42</u>	<u>53</u> <u>16</u>	<u>53</u> <u>23</u>	<u>53</u> <u>21</u>	<u>53</u> <u>18</u>
3.	<u>12</u> <u>+..</u> <u>53</u>	<u>40</u> <u>+..</u> <u>53</u>	<u>44</u> <u>+..</u> <u>53</u>	<u>36</u> <u>+..</u> <u>53</u>	<u>48</u> <u>+..</u> <u>53</u>	<u>7</u> <u>+..</u> <u>53</u>	<u>41</u> <u>+..</u> <u>53</u>	<u>37</u> <u>+..</u> <u>53</u>	<u>16</u> <u>+..</u> <u>53</u>
	<u>13</u> <u>+..</u> <u>53</u>	<u>43</u> <u>+..</u> <u>53</u>	<u>2</u> <u>+..</u> <u>53</u>	<u>45</u> <u>+..</u> <u>53</u>	<u>17</u> <u>+..</u> <u>58</u>	<u>29</u> <u>+..</u> <u>58</u>	<u>37</u> <u>+..</u> <u>58</u>	<u>43</u> <u>+..</u> <u>58</u>	<u>45</u> <u>+..</u> <u>58</u>
4.	<u>58</u> <u>-27</u>	<u>58</u> <u>-19</u>	<u>58</u> <u>-30</u>	<u>58</u> <u>-41</u>	<u>58</u> <u>-22</u>	<u>58</u> <u>-18</u>	<u>58</u> <u>-31</u>	<u>58</u> <u>-42</u>	<u>58</u> <u>-25</u>

WRITTEN WORK.

I. How many minutes are there in $\frac{1}{6}$ of an hour?

II. There are 42 working-days in 7 weeks. How many are there in 1 week?

III. What will 3 pairs of boots cost at \$3.50 a pair?

IV. Harry's mother takes 1 quart of milk a day. What does she pay for milk in January, if it is 6 cents a quart?

V. Benjamin Franklin was born in 1706. He lived 84 years. In what year did he die?

VI. I bought 5 pounds of white sugar and 8 ounces of brown sugar. How many ounces of sugar did I buy?

VII. How many pounds of flour are there in 6 barrels?

THURSDAY — LESSON LI.

1. Twenty pennies is the same as — dimes.
 One dime and 2 nickels make — cents.
 I can buy — 2-cent stamps with 50 cents.
 Sixty eggs equal — dozen eggs.
 Five dimes equal — cents.
 Four dozen and 3 eggs equal — eggs.
 Eight nickels and 1 dime equal — cents.

2. $8 \times ? = 32$	2 is $\frac{1}{11}$ of ?	$44 \div ? = 11$
$36 \div ? = 6$	5 is $\frac{1}{12}$ of ?	$9 \times ? = 18$
$48 \div ? = 8$	2 is $\frac{1}{3}$ of ?	$\frac{1}{10}$ of 40 = ?
$12 \div ? = 4$	5 is $\frac{1}{3}$ of ?	$12 \times 2 = ?$
$40 = 4 \times ?$	3 is $\frac{1}{7}$ of ?	$\frac{1}{8}$ of 60 = ?
5 is $\frac{1}{8}$ of ?	$\frac{1}{8}$ of 60 = ?	
2 is $\frac{1}{4}$ of ?	$27 = 3 \times ?$	
$5 \times ? = 30$	$10 \times 2 = ?$	
$\frac{1}{3}$ of 24 = ?	$\frac{1}{10}$ of 30 = ?	
$6 \times ? = 24$	$10 \times ? = 20$	

WRITTEN WORK.

- I. How many dimes are there in $\frac{1}{10}$ of 2 dollars?
- II. The New York Flyer makes 58 miles an hour. How far can I travel in 5 hours on this train?
- III. The Grand River is 270 miles long and the Detroit River is 28 miles long. Find the difference in the length of these two rivers.
- IV. Prospect Park in Brooklyn contains 8 miles of drives, 3 miles of bridle paths, and 11 miles of walks. How many miles are there in all?
- V. In 1 bushel of corn there are 80 pounds. How many pounds are there in 6 bushels of corn?

FRIDAY — LESSON LII.

- | | | | |
|----|---------------------------|---------------------------|---------------------------|
| 1. | $18 \div 6 = ?$ | $9 \div 3 = ?$ | $15 \div 3 = ?$ |
| | $\frac{1}{7}$ of $42 = ?$ | $2 \times 9 = ?$ | $5 \times 5 = ?$ |
| | $32 \div ? = 8$ | $18 \div ? = 2$ | $16 \div ? = 2$ |
| | $\frac{1}{5}$ of $50 = ?$ | $3 \times 8 = ?$ | $\frac{1}{8}$ of $16 = ?$ |
| | $10 \div 2 = ?$ | $2 \times 8 = ?$ | |
| | $4 \times ? = 8$ | $36 \div 9 = ?$ | |
| | $7 \times ? = 7$ | $\frac{1}{3}$ of $12 = ?$ | |
| | $10 \div ? = 2$ | $18 \div 3 = ?$ | |
-
- | | | | | | | | | | |
|----|--|--|--|--|--|--|--|--|--|
| 2. | $\begin{array}{r} 59 \\ -17 \\ \hline \end{array}$ | $\begin{array}{r} 59 \\ -25 \\ \hline \end{array}$ | $\begin{array}{r} 59 \\ -40 \\ \hline \end{array}$ | $\begin{array}{r} 59 \\ -37 \\ \hline \end{array}$ | $\begin{array}{r} 59 \\ -22 \\ \hline \end{array}$ | $\begin{array}{r} 59 \\ -19 \\ \hline \end{array}$ | $\begin{array}{r} 59 \\ -28 \\ \hline \end{array}$ | $\begin{array}{r} 59 \\ -33 \\ \hline \end{array}$ | $\begin{array}{r} 59 \\ -15 \\ \hline \end{array}$ |
|----|--|--|--|--|--|--|--|--|--|

WRITTEN WORK.

I. There are 28 days in a lunar month. How many more days are there in December than in a lunar month?

II. Every fourth year is a leap year. How many leap years are there in a century?

III. It takes the earth 365 days to go around the sun. How many days will it take the earth to go around the sun three times?

IV. The leaf of a cocoanut tree is 15 feet long. What is the length of 5 of these leaves sewed together?

V. How many sides have 25 triangles?

VI. A bushel of potatoes weighs 60 pounds and a bushel of oats 32 pounds. How many more pounds are there in a bushel of potatoes than in a bushel of oats?

VII. Three passenger trains left Chicago, the first carrying 618 persons, the second 539, and the third 754. How many people were there in all?

FOURTEENTH WEEK.

B THIRD.

MONDAY — LESSON LIII.

1. One-tenth of 40 quarts equals — quarts.
 One-eleventh of 33 quarts equals — quarts.
 One-twelfth of 24 quarts equals — quarts.
 One-third of 9 quarts equals — quarts.
 One-sixth of 18 quarts equals — quarts.
2. $\frac{1}{5}$ of 45 = ? Find $\frac{1}{10}$ of 60. $\frac{1}{5}$ of 54. $\frac{1}{7}$ of 49.
 $\frac{1}{12}$ of 60 cents. $\frac{1}{3}$ of 54 cents. $\frac{1}{4}$ of 56 cents.
 $\frac{1}{8}$ of 40 cents.
3. What is $\frac{1}{3}$ of 45 quarts of beans?
 What is $\frac{1}{5}$ of 50 gallons of oil?
 What is $\frac{1}{8}$ of 56 oranges?
 What is $\frac{1}{9}$ of 54 marbles?
4. Eleven times 4 equals — ? Nine times 6 equals — ?
 Twelve times 5 equals — ? Eight times 7 equals — ?

WRITTEN WORK.

- I. What will 3 lead pencils at 5 cents apiece, 4 books at 10 cents apiece, and a football at 60 cents, cost?
- II. How many chairs, at \$4 apiece, can be bought for \$32?
- III. Seiford had 49 marbles and gave $\frac{1}{7}$ of them to Earnest. How many had he left?
- IV. How many years since Elisha Gray invented the telephone in 1873?
- V. How many pints are there in a gallon of oil?
- VI. How many days are there in $\frac{1}{6}$ of June?

TUESDAY — LESSON LIV.

- | | | |
|----------------------------|--------------------------|--------------------------|
| 1. $\frac{1}{2}$ of 25 = ? | $10 \div 5 = ?$ | $\frac{1}{5}$ of 45 = ? |
| $6 \times 3 = ?$ | $\frac{1}{4}$ of 12 = ? | $3 \times 12 = ?$ |
| $16 \div 8 = ?$ | $9 \times 2 = ?$ | $\frac{1}{3}$ of 9 = ? |
| $2 \times ? = 16$ | $10 \div ? = 5$ | $3 \times ? = 12$ |
| $\frac{1}{5}$ of 10 = ? | $\frac{1}{10}$ of 10 = ? | $16 = 4 \times ?$ |
| $\frac{1}{8}$ of 56 = ? | $60 \div 10 = ?$ | $\frac{1}{11}$ of 55 = ? |
| $\frac{1}{5}$ of 40 = ? | $18 \div 2 = ?$ | |
| $16 \div 4 = ?$ | $\frac{1}{5}$ of 55 = ? | |
| $8 = 2 \times ?$ | $9 \times 5 = ?$ | |
| $9 \times 6 = ?$ | $60 \div 12 = ?$ | |
| $\frac{1}{12}$ of 60 = ? | $4 \times 12 = ?$ | |
| $56 \div 7 = ?$ | $7 \times 8 = ?$ | |
-
- | | |
|---------------------------------|---------------------|
| 2. How much less than 52 is 27? | 3. $4 \times 3 = ?$ |
| How much less than 52 is 38? | $9 = 3 \times ?$ |
| How much less than 52 is 41? | $3 \times ? = 18$ |
| How much less than 52 is 18? | $8 \times ? = 24$ |
| How much less than 52 is 19? | $10 = 2 \times 5$ |

WRITTEN WORK.

I. How many dimes will pay for 2 dozen oranges at 25 cents a dozen?

II. At 8 cents a pound, what will a baker receive for 13 pounds of crackers?

III. How many aprons, 2 yards long, can be made from a bolt of muslin containing 52 yards?

IV. Multiply the number of days in this month by 8.

V. From New York to Cleveland is 580 miles. What would a round trip ticket cost at 3 cents a mile?

THURSDAY — LESSON LV.

1. If an orange be cut into 3 equal parts 1 part is called one—.

If an apple be cut into 4 equal parts 1 part is called one—.

If a pear be cut in 5 equal parts 1 part is called one—?

If a melon be cut into 6 equal parts 1 part is called one—.

2. Find 10 per cent. of 1 dollar.

Find $\frac{1}{10}$ of a dollar.

Find how many dimes there are in $\frac{1}{2}$ of a dollar.

$$3. \quad 25 = 5 \times ?$$

$$36 \div ? = 12$$

$$\frac{1}{8} \text{ of } 8 = ?$$

$$3 \times ? = 9$$

$$14 = 7 \times ?$$

$$36 \div 3 = ?$$

$$\frac{1}{3} \text{ of } 18 = ?$$

$$8 \div ? = 2$$

$$5 \times 10 = ?$$

$$10 \times 6 = ?$$

$$6 = 2 \times ?$$

$$24 \div 3 = ?$$

$$\frac{1}{6} \text{ of } 12 = ?$$

$$35 \div ? = 7$$

$$18 = 6 \times ?$$

$$24 \div ? = 12$$

$$8 \text{ is } \frac{1}{7} \text{ of } ?$$

$$\frac{1}{4} \text{ of } 8 = ?$$

$$6 \text{ is } \frac{1}{4} \text{ of } ?$$

$$6 \text{ is } \frac{1}{10} \text{ of } ?$$

$$12 \text{ is } \frac{1}{4} \text{ of } ?$$

$$15 \div 5 = ?$$

$$4 \times 10 = ?$$

$$9 \times 3 = ?$$

$$\frac{1}{8} \text{ of } 56 = ?$$

WRITTEN WORK.

I. There are 48 pansies in Ella's pansy bed. If Ella picks $\frac{1}{4}$ of them, how many will she leave?

II. Find the surface of the blackboard on the side of the room.

III. A spider has 8 legs and a fly has 6 legs. How many more legs have 7 spiders than 9 flies?

IV. The great fire in Chicago was in 1871. How many years since then?

FRIDAY — LESSON LVI.

1. How many 4's are there in 20, 24, 28, 32, 36, 40, 44, 48?
 How many 5's are there in 20, 25, 30, 35, 40, 45, 50, 55?
 How many 6's are there in 24, 30, 36, 42, 48, 54, 60?
2. How many oranges, at 5 cents apiece, can be bought with 30 cents?
3. How many pencils, at 4 cents apiece, can be bought with 48 cents?
4. How many spelling slips, at 5 cents apiece, can be bought with 55 cents?
5. How many balls, at 6 cents apiece, can be bought with 48 cents?

6.	597	470	300	637	520	425	429
	-349	-196	-195	-164	-188	-368	-196

WRITTEN WORK.

I. A wild rose has 5 petals. Jennie picked 9 roses and Mollie picked 10 roses. How many petals will they find in all?

II. If there are — children on the first floor of our school and — children on the second, how many are there in all?

III. How many more children are there on the first floor than on the second floor?

IV. At a children's party $7\frac{1}{4}$ oranges were eaten. How many fourths were eaten?

V. Find the surface of your desk in inches.

VI. It is 8 miles from Ypsilanti to Ann Arbor, via the M. C. R. R., and 7 times as far plus 1 mile from Michigan City to Chicago. How far is it from Michigan City to Chicago?

FIFTEENTH WEEK.

B THIRD.

MONDAY — LESSON LVII.

- | | | |
|----------------------------|----------------------------|---------------------------|
| 1. $2 \times 11 = ?$ | $10 \times ? = 40$ | $\frac{1}{3}$ of $33 = ?$ |
| $\frac{1}{2}$ of $15 = ?$ | $18 = 9 \times ?$ | $16 = 8 \times ?$ |
| $\frac{1}{2}$ of $22 = ?$ | $21 \div 3 = ?$ | $11 \times ? = 44$ |
| $30 = 5 \times ?$ | $6 \times 5 = ?$ | $36 = 4 \times ?$ |
| $\frac{1}{2}$ of $12 = ?$ | $32 \div 4 = ?$ | $3 \times 6 = ?$ |
| 2. $2 \times 6 = ?$ | $\frac{1}{3}$ of $15 = ?$ | 3. Nine 5's equal? |
| $48 \div 8 = ?$ | $5 \times ? = 25$ | Eight 7's equal? |
| $\frac{1}{10}$ of $10 = ?$ | $44 \div ? = 4$ | Six 10's equal? |
| $8 \times ? = 16$ | $\frac{1}{10}$ of $50 = ?$ | Six 9's equal? |
| $2 \times 4 = ?$ | $27 \div ? = 9$ | |

Add—

4.	$\frac{44}{14}$	$\frac{19}{40}$	$\frac{48}{11}$	$\frac{44}{15}$	$\frac{24}{35}$	$\frac{52}{7}$	$\frac{13}{46}$	$\frac{49}{10}$	$\frac{36}{23}$
5.	$\frac{14}{58}$	$\frac{18}{59}$	$\frac{39}{58}$	$\frac{16}{57}$	$\frac{24}{53}$	$\frac{10}{59}$	$\frac{43}{58}$	$\frac{27}{52}$	$\frac{16}{59}$

WRITTEN WORK.

I. Benjamin Franklin was born in 1706. How old was he when he died in 1790?

II. Alice had 35 cents, she earned 48 cents more and her mother gave her 25 cents. How much had she then?

III. Twenty-seven dollars is $\frac{1}{7}$ of a man's money. How many dollars has he?

IV. How many feet are there in 16 yards? How many yards are there in 27 feet?

TUESDAY — LESSON LVIII.

1. How many cents in $\frac{1}{10}$ of a half dollar?
How many cents in $\frac{1}{4}$ of a dollar?
How many cents in $\frac{1}{8}$ of a dollar?
How many dimes in 1 dollar?
 2. How many pints are there in $\frac{1}{4}$ of a gallon?
How many quarts are there in $\frac{1}{4}$ of a peck?
How many ounces are there in $\frac{1}{8}$ of a pound?
How many hours are there in $\frac{1}{6}$ of a day?
How many quarts are there in $\frac{1}{4}$ of a bushel?
-

WRITTEN WORK.

- I. At 3 cents a pint, what will 1 gallon of milk cost?
- II. The Evening News in Detroit is 2 cents a copy. If a man brings 1 home every night through October, how much will it cost him?
- III. Find distance in feet around your schoolroom.
- IV. It is 26 miles from Detroit to Pontiac and 37 miles from Detroit to Ann Arbor. How many miles farther is Ann Arbor from Detroit than Pontiac is from Detroit?
- V. How many pounds of sugar, at \$.05 a pound, can be bought with 4 dimes and 3 nickels?
- VI. Five men bought a sail boat together for \$765. The first man paid \$132, the second \$143, the third \$98, and the fourth \$225. What did the fifth man pay if he paid the remainder?
- VII. Florida was admitted as a state in 1845. How long before this was Michigan admitted in 1837?
- VIII. How many square feet are there in a room that is 18 feet long and 10 feet wide?

THURSDAY — LESSON LIX.

- | | | |
|-------------------------|-------------------------|-------------------------|
| 1. $5 \times 10 = ?$ | $60 \div ? = 6$ | $45 \div 9 = ?$ |
| $4 \times 2 = ?$ | $55 = 5 \times ?$ | $2 \times ? = 8$ |
| $\frac{1}{2}$ of 18 = ? | $\frac{1}{3}$ of 27 = ? | $\frac{1}{2}$ of 6 = ? |
| $4 \times ? = 16$ | $4 \times 9 = ?$ | $27 \div 9 = ?$ |
| $18 \div ? = 9$ | $25 \div 5 = ?$ | $12 \times 3 = ?$ |
| $4 \times 9 = ?$ | $8 \times 7 = ?$ | $\frac{1}{3}$ of 6 = ? |
| $55 \div ? = 11$ | $8 \times 6 = ?$ | $36 \div 12 = ?$ |
| $\frac{1}{2}$ of 12 = ? | $6 \times 10 = ?$ | $5 \times 2 = ?$ |
| $2 \times ? = 10$ | $9 \times 6 = ?$ | $21 \div 7 = ?$ |
| $2 \times 5 = ?$ | $5 \times 10 = ?$ | $\frac{1}{2}$ of 14 = ? |

Add—

2.	92	754	726	92	465	61	321
	36	568	351	63	317	78	657
	<u>73</u>	<u>941</u>	<u>574</u>	<u>74</u>	<u>274</u>	<u>81</u>	<u>486</u>

WRITTEN WORK.

I. From $\frac{1}{2}$ of 92 take 27 and write the result in words.

II. Cleveland has 994 acres in parks and Milwaukee has 407 acres. How many more acres are there in the Cleveland parks than in the Milwaukee parks?

III. Columbus was born in 1435. How old was he when he made his last visit to America, in 1520?

IV. A boat sails the whole length of Lake Superior, 460 miles, in 4 days. How many miles does it sail in 1 day?

V. I paid \$3.02 for a hat, \$2.59 for an umbrella, and \$4.63 for shoes. What did I pay for all?

VI. How many quarts are there in $3\frac{1}{2}$ gallons?

FRIDAY — LESSON LX.

1. Four 10's and ? equal 47.
Five 10's and ? equal 52.
Three 10's and ? equal 38.
Four 11's and ? equal 47.
Seven 8's and ? equal 59.
Two 12's and ? equal 31.
Four 9's and ? equal 37.
Five 9's and ? equal 51.
Four 8's and ? equal 39.
Four 12's and ? equal 51.
Five 11's and ? equal 58.
2. Fifty-two equals five 10's and?
Forty-six equals five 9's and?
Forty-one equals seven 5's and?

WRITTEN WORK.

I. If a man's expenses are \$5 a day, what are they for 1 year?

II. How long will a barrel of apples, containing 250 apples, last, if 5 apples are taken out daily?

III. How many feet are there in 756 yards of cotton?

IV. Mr. Allen paid \$175 for a horse, \$426 for a carriage, and \$198 for a harness. What did they all cost?

V. If when Nokomis was 54 years old Hiawatha was $\frac{1}{2}$ as old plus 2 years, how old was Hiawatha at that time?

VI. A gardener picked 16 quarts of strawberries on Tuesday, and $\frac{1}{2}$ as many on Wednesday. How many quarts did he pick on both days?

SIXTEENTH WEEK.**B THIRD.****MONDAY — LESSON LXI.**

1. Thirty-nine equals three 10's and ?
Forty-three equals six 7's and ?
Fifty-three equals five 10's and ?
Fifty-seven equals eight 7's and ?
Thirty-eight equals six 6's and ?
Fifty-one equals four 12's and ?
Thirty-one equals twelve 2's and ?
Forty-seven equals four 10's and ?
Thirty-seven equals five 7's and ?
Fifty-two equals seven 7's and ?
Fifty-three equals eight 6's and ?
2. What is $\frac{1}{3}$ of 24 quarts?
What is $\frac{1}{11}$ of 44 apple trees?
What is $\frac{1}{4}$ of 40 roses?
What is $\frac{1}{12}$ of 48 pine trees?

WRITTEN WORK.

I. The fare from Chicago to Detroit is \$7.75, and the fare from Buffalo to Detroit is \$7. How much more does a round trip ticket from Chicago to Detroit cost than one from Buffalo to Detroit?

II. In a barrel of flour there are 196 pounds. If a family uses 4 pounds daily, how long will the flour last?

III. How many square rods are there in a field that is 12 rods long and 6 rods wide?

TUESDAY — LESSON LXII.

1. What is $\frac{1}{4}$ of 40 pinks? What is $\frac{1}{12}$ of 36 doves?
 What is $\frac{1}{11}$ of 55 geese? What is $\frac{1}{10}$ of 50 minks?
2. Find $\frac{1}{10}$ of 50 elm trees. Find $\frac{1}{3}$ of 45 maple trees.
 Find $\frac{1}{8}$ of 42 cherry trees. Find $\frac{1}{3}$ of 60 oak trees.
3. How many seconds are there in $\frac{1}{6}$ of a minute?
 How many minutes are there in $\frac{1}{2}$ of an hour?
 How many hours are there in $\frac{1}{3}$ of a day?
 How many hours are there in $\frac{1}{3}$ of a day?
 How many ounces are there in $\frac{1}{4}$ of a pound?
4. Fifty-nine lots less 16 lots equal — lots.
 Fifty-eight gardens less 20 gardens equal — gardens.
 Fifty-seven flowers less 32 flowers equal — flowers.

Add—

5.	29	546	16	231	584
	36	731	17	567	263
	<u>47</u>	<u>427</u>	<u>18</u>	<u>846</u>	<u>547</u>

WRITTEN WORK.

I. An errand boy was given \$3.50 to invest in 2-cent postage stamps. How many stamps did he buy?

II. A nugget of gold weighed 2 pounds, but 27 ounces were quartz. How many ounces of pure gold were there in the nugget?

III. Lena's piano has 52 white keys and 36 black ones, and Mabel's has the same number. How many keys are there on both pianos?

IV. Maurice was saving silver quarters. He opened his bank and found \$5.25. How many quarters had he saved?

THURSDAY — LESSON LXIII.

1. How many dimes in $\frac{1}{10}$ of ten dollars?
2. In $\frac{1}{4}$ of a minute how many seconds?
3. In $\frac{1}{3}$ of a dozen eggs how many eggs?
4. In $\frac{1}{3}$ of a yard how many inches?
5. There are — minutes in $\frac{1}{4}$ of an hour.
6. There are — pints in $\frac{1}{8}$ of a gallon.
7. Willie bought a pound of nuts for 26 cents and a dozen oranges for 25 cents. How much did he pay for both?
8. Mr. Brown rode 27 miles on Tuesday and 25 on Wednesday. How far did he travel on both days?
9. Name the months having 31 days.
10. One spider has 8 legs. How many legs have 7 spiders?
11. If Charlie is 6 years old and this is $\frac{1}{4}$ of his father's age, how old is his father?

WRITTEN WORK.

I. It is $\frac{1}{2}$ mile from Windsor to Detroit. If the ferry steamer Victoria crosses over and returns 28 times in a day, how many miles does she travel?

II. Lake Erie is 120 feet deep. How many yards of rope would it take to reach the bottom?

III. Harvey is 8 years old. How many days has he lived?

IV. In 1805 Detroit was entirely destroyed by fire. How many years has it been growing to its present size?

FRIDAY — LESSON LXIV.

1. Fifty-two horses less 24 horses equal — horses.
Fifty-three joiners less 15 joiners equal — joiners.
 2. Write in words XXVII, XIX, VIII, XXI, XXX.
 3. $\frac{1}{3}$ of 30 = ? 4. Find number of quarts in 12 gallons.
 $\frac{1}{6}$ of 60 = ? Find number of days in 8 weeks.
 $\frac{1}{7}$ of 56 = ? Find number of ounces in 2 pounds.
 $\frac{1}{8}$ of 54 = ? Find number of quarts in 1 bushel.
 $\frac{1}{12}$ of 60 = ? Find number of cents in 2 dollars.
 5. Find number of working-days in 9 weeks.
Find number of days in this month.
-

WRITTEN WORK.

I. Albert had 4 dozen eggs in a basket and he broke 8 of them. How many eggs were left?

II. The human body contains 208 bones, 30 in each arm and each leg. The rest are in the head and trunk. How many bones are there in the head and trunk?

III. Every state of the 45 states in the United States sends 2 Senators to the Senate. When all have voted and the Vice President has cast his vote, how many votes will have been cast?

IV. At 5 cents a loaf, how many loaves of bread can be bought for \$5.00?

V. One-fifth of Capt. Porter's money is \$937. How much money has he?

VI. If a policeman receives \$70 a month, how much will he receive in $\frac{1}{2}$ of a year?

SEVENTEENTH WEEK.

B THIRD.

MONDAY — LESSON LXV.

1. Find cost of 9 pairs of shoes at \$5 a pair.
2. One-sixth of Jennie's money is 9 cents. How much money has she?
3. How many days in June, May and February?
4. Ella gathered 12 wild roses and each rose had 5 petals. How many petals in all?
5. Marion had 25 slips on her block and Fannie had 23. How many had both?
6. George earned 7 cents on Monday and 5 times as many before Saturday night. How many cents did he earn altogether?

Subtract—

7.	31	395	529	509	421
	<u>19</u>	<u>267</u>	<u>346</u>	<u>135</u>	<u>113</u>

WRITTEN WORK.

- I. It took the pilgrims 103 days to cross the Atlantic. Now it takes 6 days to cross. How many more days did it take then than now?
- II. It is 899 miles from New York to Chicago and 232 miles from New York to Boston. How many miles farther is it from New York to Chicago than from New York to Boston?
- III. Coal was first mined in England in 1180. How many years since then?
- IV. How many years was this before the discovery of America by Columbus in 1492?

TUESDAY — LESSON LXVI.

1. There were 41 snow birds in a tree. If 24 flew down how many were left?

2. If Jennie had 60 cents and spent $\frac{1}{10}$ of it for candy, how much had she left?

Subtract—

3.	549	518	225	349	785
	<u>368</u>	<u>463</u>	<u>126</u>	<u>168</u>	<u>425</u>

4. How many inches are there in $\frac{1}{3}$ of a yard?

How many minutes are there in $\frac{1}{2}$ of an hour?

5. In $\frac{1}{4}$ of a year how many months are there?

In $\frac{1}{10}$ of a dollar how many dimes are there?

6. How many cherries are there in $\frac{1}{4}$ of a dozen?

Add—

7.	37	475	627
	<u>29</u>	<u>856</u>	<u>513</u>
	<u>63</u>	<u>491</u>	<u>754</u>

WRITTEN WORK.

I. Fulton lived 50 years. He died in 1815. When was he born?

II. The girls in a school made a slumber robe in which there were 375 squares. If each girl made 3 of the squares, how many girls were working on it?

III. The Albion flour is \$5 a barrel. How many barrels can a grocer buy with \$300?

IV. The square prism has 8 corners. How many corners are there on 24 square prisms?

THURSDAY — LESSON LXVII.

1. There are — hours in $\frac{1}{8}$ of a day.

There are — quarts in $\frac{1}{8}$ of a bushel.

There are — pints in $\frac{1}{4}$ of a gallon.

2. In $\frac{1}{4}$ of a dollar there are — cents.

3. Charlie earned 14 cents on Monday and 45 cents on Tuesday. How much did he earn on both days?

4. James had 8 marbles and won 7 times as many. How many did he win?

Multiply—

5.	342	453	561	405	689	341	632	527
	<u>4</u>	<u>3</u>	<u>5</u>	<u>6</u>	<u>2</u>	<u>6</u>	<u>2</u>	<u>3</u>

6. John spent 29 cents for firecrackers and 12 cents for a flag. How much did he spend for both?

WRITTEN WORK.

I. Which costs more, 9 pounds of crackers at 6 cents a pound, or 5 gallons of oil at 10 cents a gallon?

II. At \$125 a lot, what will 5 lots cost?

III. There are 65 miles of carriage drives in Fairmount Park, Philadelphia, and 9 miles in Central Park, New York. How many more miles of driveways are there in Fairmount Park than in Central Park?

IV. What will 7 yards of carpet cost at \$.75 a yard?

V. Charlie had 56 marbles and gave $\frac{1}{7}$ of them to Henry. How many more did he keep than he gave away?

VI. Hiawatha fasted 4 days. There are 24 hours in 1 day. How many hours did he fast?

FRIDAY — LESSON LXVIII.

1. Susie bought 9 oranges at 6 cents each. How much did they all cost?
2. How much change would Susie receive if she gave the clerk 6 dimes to pay for the oranges?
3. What part of a yard is a foot?
What part of a gallon is 1 pint?
What part of a gallon is 1 quart?
What part of a peck is 1 quart?
What part of a bushel is 1 peck?
4. $5 \times ? = 50$
 $7 \times ? = 49$
 $9 \times ? = 45$
 $10 \times ? = 50$
 $8 \times ? = 48$

WRITTEN WORK.

I. We learn 6 new words a day. How many days will it take to learn 486 new words?

II. How many square feet are there in a garden that is 18 feet long and 7 feet wide?

III. How many feet of fence will it take to surround the garden?

IV. The whaleback steamer Christopher Columbus is 362 feet long, and this is 262 feet longer than the Pinta, the longest of Columbus's boats. Find the length of the Pinta.

V. Niagara Falls are 165 feet high, and the Yosemite Falls are 2,634 feet high. How much higher are the Yosemite Falls than the Niagara Falls?

VI. Benjamin Franklin died in 1790. How long is it since he died?

EIGHTEENTH WEEK.**B THIRD.****MONDAY — LESSON LXIX.**

- | | | |
|---------------------|----------------------------|----------------------------|
| 1. $7 \times 7 = ?$ | 2. 6 is $\frac{1}{3}$ of ? | 3. $\frac{1}{3}$ of 48 = ? |
| $5 \times 10 = ?$ | 2 is $\frac{1}{3}$ of ? | $\frac{1}{3}$ of 45 = ? |
| $8 \times 6 = ?$ | 11 is $\frac{1}{4}$ of ? | $\frac{1}{10}$ of 50 = ? |
| $10 \times 5 = ?$ | 12 is $\frac{1}{3}$ of ? | $\frac{1}{11}$ of 44 = ? |
| $12 \times 4 = ?$ | 10 is $\frac{1}{4}$ of ? | $\frac{1}{12}$ of 48 = ? |
4. What is $\frac{1}{4}$ of a gallon?
 What is $\frac{1}{3}$ of a yard? (in inches)
 What is $\frac{1}{3}$ of a foot?
 What is $\frac{1}{4}$ of a dozen?
 What is $\frac{1}{3}$ of 30 minutes?
5. Seven times 7 days are — days.
 Eight times 6 minutes are — minutes.
 Nine times 5 seconds are — seconds.
 Ten times 4 hours are — hours.
 Eleven times 3 houses are — houses.

WRITTEN WORK.

I. How many bins will be required to hold 56 bushels of oats if 1 bin holds 8 bushels?

II. Mary gave a party. Thirty-seven boys and 26 girls were invited, and during the afternoon 29 grown persons came. How many people were at the party?

III. Each boy had 6 nuts and each girl 5 nuts. How many nuts did all have?

IV. If a man pays 10 cents a week for his evening paper, how much does it cost him in a year?

TUESDAY — LESSON LXX.

Divide—

$$\begin{array}{r}
 1. \quad 6 \overline{)366} \quad 4 \overline{)484} \quad 5 \overline{)515} \quad 4 \overline{)816} \quad 5 \overline{)505} \quad 2 \overline{)148} \quad 4 \overline{)808} \\
 6 \overline{)186} \quad 4 \overline{)132} \quad 5 \overline{)155} \quad 5 \overline{)205} \quad 4 \overline{)164} \quad 3 \overline{)609}
 \end{array}$$

$$2. \quad 9 \text{ is } \frac{1}{3} \text{ of?} \qquad 3. \quad \text{Find } \frac{1}{5} \text{ of } 50.$$

$$\text{What is seven } \frac{1}{6} \text{ of?} \qquad \text{Find } \frac{1}{6} \text{ of } 42.$$

$$\text{Of what is eight } \frac{1}{4} \text{?} \qquad \text{Find } \frac{1}{8} \text{ of } 40.$$

$$\text{Of what is nine } \frac{1}{3} \text{?} \qquad \text{Find } \frac{1}{7} \text{ of } 49.$$

$$\text{Of what is four } \frac{1}{5} \text{?} \qquad \text{Find } \frac{1}{10} \text{ of } 50.$$

$$4. \quad \text{How many days are there in June and April?}$$

$$\text{How many quarts are there in 2 gallons and 1 quart?}$$

$$\text{How many pecks are there in 4 bushels and 2 pecks?}$$

$$\text{How many hours are there in } \frac{1}{4} \text{ of a day?}$$

$$\text{How many hours are there in } \frac{1}{6} \text{ of a day?}$$

WRITTEN WORK.

I. Find the surface of a piece of tin 16 inches long and 9 inches wide.

II. Four hundred and sixty-six pounds of coal are consumed every minute by a large ocean steamer. How many pounds are consumed in 5 minutes?

III. A flag pole is 30 feet high. If $\frac{1}{3}$ of its length is red and the rest white, how many feet are white?

IV. Frank had 198 feet of kite string, and his kite broke away taking $\frac{1}{3}$ of the string. How many feet of string were left?

V. How many feet were taken with the kite?

VI. Belle Isle Park in Detroit contains 700 acres. How many acres are there in $\frac{1}{4}$ of it?

THURSDAY — LESSON LXXI.

1. What will 5 dozen buttons cost at 9 cents a dozen?
What will 2 cans of corn cost at 15 cents a can?
What will $\frac{1}{2}$ pound of cloves cost at 5 cents an ounce?
 2. How many pints are there in 5 quarts?
How many quarts are there in 1 bushel?
How many pints are there in 2 gallons?
-

WRITTEN WORK.

I. If a man sleeps 8 hours a night, how many hours will he sleep in March?

II. The first copper cent was coined in New Haven—the City of Elms—in 1607. How many years is it since then?

III. We had in our room to-day 49 lilac leaves, 50 poplar leaves, and 53 peach leaves. How many leaves were there in all?

IV. Chicago was founded in 1779, and the great fire there was in 1871. How many years between these dates?

V. At 6 cents a pint, what will a gallon of cream cost?

VI. An oil well in Pennsylvania flows at the rate of 340 barrels a day. How much will it yield in 6 days?

VII. The transfer boat carried 108 cars across the Detroit River in 6 trips. How many cars were carried at one trip?

VIII. How many rods of fencing will it take to inclose a square field that is 49 rods on a side?

IX. A grocer has 570 pounds of candy that he wants to put up in 3 pound boxes. How many boxes will be required?

FRIDAY — LESSON LXXII.

1. In 2 pints how many gills? Six dimes = — pennies.

In 2 days how many hours? $\frac{1}{12}$ of a day = — hours.

In 7 weeks how many days? 5×12 hours = — hours.

2. If a man walk 5 miles an hour, how far will he walk in 12 hours?

3. How long would it take this man to walk 20 miles?

WRITTEN WORK.

I. Add \$2.35, \$1.75, and \$3.41.

II. Harry's mother takes 3 pints of milk a day. How many pints does she take in a week?

III. At \$.03 a pint, what does she pay for milk in a week?

IV. Find 1 side of a square lot if the distance around it is 980 rods.

V. What is the cost of $2\frac{1}{2}$ dozen oranges at 4 cents apiece?

VI. On a tree in October there were 324 colored leaves. If 196 fell off during the night, how many were left on the tree?

VII. Of the 102 Pilgrims that came to America in 1620, 54 died the first year. How many survived?

VIII. It is 90 miles from New York City to Philadelphia. What will two round trip tickets cost at \$.03 a mile?

ADDITIONAL PROBLEMS.

I. A shaft in a coal mine is 150 feet deep. How many yards is that?

II. Whittier's poem "Barefoot Boy" contains 102 lines. If a boy has learned $\frac{1}{3}$ of them, how many lines has he yet to learn?

III. Boston was founded in 1630. How long was this before Boston's famous "Tea Party" in 1773?

IV. Abraham Lincoln was 52 years old at the time the Civil War began in 1861. In what year was he born?

V. The average beat of the pulse of an adult is 72 times a minute. How many times does it beat in $\frac{1}{10}$ of an hour?

VI. If a man working in the stove works can earn \$41.94 a month, how much can he earn in 6 months?

VII. I have 354 quarts of peaches to can. How many 2-quart jars will I need?

VIII. Benjamin Franklin was born in 1706. How old was he when he invented the lightning rod in 1752?

IX. Hudson's boat "The Clermont" sailed at the rate of 5 miles an hour. How long did it take her to sail from New York to Albany, a distance of 143 miles?

X. It is 285 miles from Chicago to Detroit via the Michigan Central R. R., and from Chicago to New York City 899 miles. When a man has traveled from Chicago to Detroit, how much farther has he to travel before he reaches New York?

XI. The Mayflower was at sea 103 days. How many more days would the Pilgrims have spent on the water if they had been at sea a year?

XII. Columbus's last voyage to America was in 1520. At this time he took the first corn back to Spain with him. How many years since then?

XIII. In Grand Rapids, Mich., there are 31 public schools and 20 private schools. How many more public schools are there than private schools?

XIV. The Washington Monument is 555 feet high, and Bunker Hill Monument is 221 feet high. How many feet higher is the Washington than the Bunker Hill Monument?

XV. Fairmount Park, Philadelphia, contains 3,000 acres, and Central Park, New York City, contains 840 acres. How many more acres are there in Fairmount than in Central Park?

XVI. A man living at Bay City, 108 miles from Detroit, is how many miles farther from the "City of The Straits" than a man living in Lansing, which is 85 miles from Detroit?

XVII. If one man at the Jamestown settlement cut down 28 trees, another 45 trees, another 67, and another 52, how many trees did these four men cut down?

XVIII. Capt. Cameron of the ^{Luc}Tuetic—^{the} great ocean liner—stood on the bridge of his boat during the great Atlantic storm of February, 1895, for 37 hours. How many minutes more than one whole day was he at his post?

XIX. The suspension bridge at Niagara Falls was finished 40 years ago. In what year was it completed?

XX. New York City is 899 miles from Chicago. How many miles does a man travel in going from one city to the other and back? Find cost of his ticket at \$.03 a mile.

XXI. In 1789 there were 75 post offices in the United States, and in 1890 there were 58,999 post offices. Find the increase.

XXII. Belle Isle Park, Detroit, would make 175 four-acre gardens. How many acres are there in the park?

XXIII. It is 175 miles from England to Holland. Miles Standish traveled there and back. How many miles did he travel?

XXIV. Fulton's "Folly" made the first trip on the Hudson in 1807. How many years was this before the ocean liner—the St. Louis—was launched in 1894?

XXV. Jackson Park, Chicago, contains ⁶⁸⁶~~633~~ acres. How much larger is Central Park, New York, which contains 840 acres?

XXVI. An ant has 6 rings on the back part of his body. How many rings will a colony of 600 ants have?

XXVII. A ticket from Detroit to Cleveland on the "City of Cleveland" costs \$2.25. How much will I have left of a \$10 bill after buying 2 tickets?

XXVIII. Cleveland has a river frontage of 16 miles, and New Orleans has a river front of 9 miles. How many more miles of river front has Cleveland than New Orleans?

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